

GEC PATAN NEWSLETTER

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JANUARY – MARCH 2024



Institute Glimpses

Government Engineering College, Patan end searingly known as G.E.C.P is situated at the scenic village katpur Patan city. Started in 2004 with an aim of imparting quality higher education in various fields of engineering, it has seen unprecedented growth. It is affiliated with Gujarat Technological University & administrated by Directorate of Technical Education, Government of Gujarat.

प्रज्ञानम्

The NEWSLETTER Series
of Government
Engineering College
Patan.



FROM PRINCIPAL'S DESK

Dr. A. B. DHRUV
PRINCIPAL, GEC PATAN



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.



प्रज्ञानम्

JAN-MAR 2024

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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

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• TEAM MEMBERS

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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

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- [2023 JULY-SEPT](#)
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JAN-MAR 2024

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COMPUTER SCIENCE & ENGINEERING DEPARTMENT

Shape your Ideas : A FIGMA Journey

Day 1 Speaker: Daxesh Italiya
Date: 22nd April, 2024
Time: 5:00 PM to 6:00 PM
Venue: Google Meet

DAY 1:

Basic Figma Techniques

The GDSC GEC Patan College seminar, "Shape Your Ideas Using Figma," began on April 22nd. Mr. Daxesh Italiya led with an informative overview of Figma, emphasizing its importance in design workflows. Attendees learned about Figma's interface, tools, and collaboration essentials. Day one focused on fundamental Figma knowledge, with Daxesh covering basics thoroughly. Participants gained confidence in tasks like design creation, editing, and file organization. A highlight was analyzing Kellogg's use of Figma, showcasing its impact on design collaboration and productivity. Additionally, a research paper discussion delved into Figma's role in modern design methods.

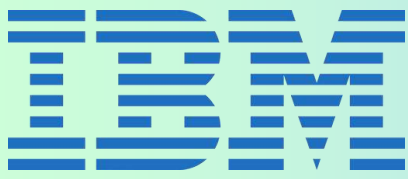
Day 2 Speaker : Kaval Patel
Date: 23rd April, 2024
Time: 11:00 A.M. to 01:00 P.M.
Venue: Google Meet

DAY 2:

Advancing Figma Techniques

On day two, the workshop began with a recap of day one's content. Participants delved into advanced Figma features like component libraries, design systems, and collaboration tools. Practical demos illustrated creating reusable components, establishing design systems, and seamless team collaboration via Figma's cloud platform. The session included analyzing Flipkart's web and mobile designs for responsiveness. Attendees practiced advanced techniques in real-world scenarios, including designing website loaders with basic animations. Group activities focused on complex interface design, feedback integration, and iterative design based on user testing. Facilitators offered guidance to ensure participants grasped concepts effectively for proficient project application.

IBM Skill Development



Event Speaker: Tanvi Shah
Date: 19th February, 2024
Time: 11:00 AM to 1:00 PM
Venue: Seminar Hall, CSE Dept.
Attendees : 89

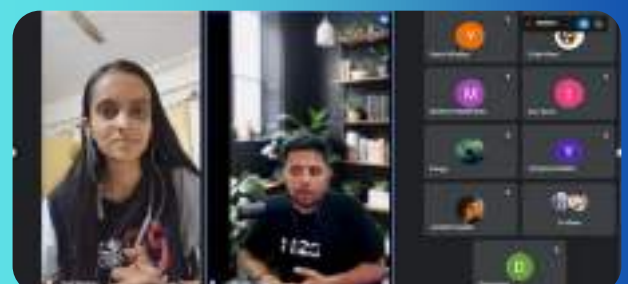
The IBM Skills Build Academic partnership Program is a CSR Initiative by IBM designed to upskill students in Technological & Digital Skills and helps them, and seamlessly integrate into the workforce. In addition to these learning opportunities, participants gain access to a wide range of employment opportunities.

Post by Postman API



- Introduction: Organizers welcomed attendees, setting the stage for an informative session.
- Speaker: Renowned Achintya Singh shared insights on Postman API's significance in technology evolution.
- Content: Singh covered Postman API fundamentals, emphasizing its role in testing and collaboration.
- Interactive Learning: Attendees underwent a step-by-step journey, from installation to advanced features exploration.
- Topics Covered: The session included installation, advanced features, interface navigation, and workflow management.
- Practical Application: Participants learned to use Postman API for collaboration and workflow enhancement.
- Q&A Session: The event ended with an engaging Q&A, clarifying doubts and deepening understanding.
- Closure: Gratitude was expressed to Achintya Singh for his contributions, leaving attendees inspired and knowledgeable in Postman API.

Speaker: Mr. Achintya Singh
Date: 18th February 2024
Time: 6:00 PM to 8:00 PM
Venue: Google Meet
Student Co-ordinator : Mr. Akshar Bhesaniya
Faculty Coordinator : Prof. Sachin Makwana, Prof. Jay Patel
Attendees : 89



Unblocking Animation : Build your Skill set



- AnimFX club conducted an online workshop on March 18, 2024.
- Introduction: Host Mr. Moksh Patel welcomed attendees and introduced guest Mr. Dhruv Panchal.
- Workshop Content: Dhruv guided participants on animation aspects like modeling, texturing, and lighting. Topics covered included Blender Modeling Basics, Texture Unwrapping, PBR Texture, and Lighting Techniques.
- Objective: The aim was to enhance participants' animation skills using Blender.
- Demonstration: Dhruv showcased his Blender-made animation.
- Q&A Session: Participants engaged in discussions on animation techniques, industry trends, and career prospects, with Dhruv providing patient answers.
- Conclusion: The workshop ended with gratitude to Dhruv Panchal and participants for their active involvement, successfully

Speaker: Dhruv Panchal

Date: 18th March 2024

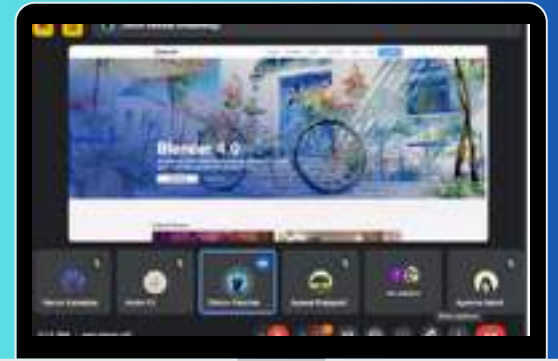
Time: 5:00 PM to 6:15 PM

Venue: Google Meet

Student Co-ordinator : Miss Purvi Patel, Mr. Moksh Patel

Faculty Coordinator : Prof. Sachin Makwana.

Attendees : 60



ALUMNI MEET & FAREWELL 2024

An alumni meet was held at Government Engineering College Patan on February 25, 2024, organized by Hon. Principal Dr. A. B. Dhruv and coordinated by Dr. H. B. Jethva. The objective was to strengthen the institution-alumni bond for mutual growth.

About 150 alumni attended. The event started with a traditional lamp lighting ceremony and welcoming speech. Dignitaries shared industry experiences, followed by a student performance. Activities included networking, alumni showcases, mentorship opportunities, and fundraising. Keynote speeches and panel discussions were highlights.

Committees ensured smooth execution. The event concluded with a Garba dance, symbolizing unity. Principal Dr. A. B. Dhruv delivered a vote of thanks. It was a memorable experience, emphasizing the importance of alumni connections and support. The success of the event reflects alumni commitment to their alma mater. Future events are planned to strengthen alumni bonds further.



MECHANICAL ENGINEERING DEPARTMENT



Technical Visit



A technical site visit to chhapi was arranged for BE mechanical 4th semester on 16th March 2024 . A total number of 24 students along with faculty members Prof. N.A.Patel and , Prof. D. K. Patel, had made the visit with prior permission from the concerning agency.



FACULTY ACTIVITIES

Sr. No	Title	Name of the faculty	Department	Place	Duration
1	Computational approaches for engineering	D.J.Parmar	Mechanical	NITTTR Ahmedabad	05/02/2024 to 09/02/2024



STUDENT ACTIVITIES



DEWANSHI SHAILESHPURI GAUSWAMI, a student of Computer Science and Engineering, earned the second position in the district-level Suryanamasakar competition and received a cash prize

SMRUTI D. LAKDAWALA, a student of Computer Science and Engineering, attained a rank of 16326 in the GATE 2024 examination.





STUDENT ACTIVITIES



DIYA ASHOKKUMAR PATEL, from the CSE department, clinched the top spot in the Kata Kai Western India Karate-Do Championship 2023 in Pune, Maharashtra. She also secured the third position in the Art of Karate-Do Federation Gujarat - 2nd North Gujarat Karate Championship in Patan and emerged victorious in the Kumite (fight) category at the Kai Western India Karate-Do Championship 2023 in Pune, Maharashtra.

MEHTA ABHISHEK HIRENBHAI, Computer Science and Engineering department's student participated in GUJARAT YOUTH PARLIAMENT 2024 at Mahatma Mandir Convention Center, Gandhinagar.



PATEL ANSHKUMAR NILESHBHAI, participate Online Quiz which is Based on Blender Software, by Spoken Tutorial IIT Bombay. On dated 6/1/2024.

SAHAJ PATEL, 200220119013 publish paper entitled "Design and Analysis of Offsetting Anti-Splashing Vaned Plate" was accepted on 1 Jan 2024. Paper was Submitted in Peer Review Journal: International Journal of Design Engineering of Inderscience Publications





NSS ACTIVITIES



National Youth Festival

Event Date : 12th – 16th January 2024

Event Venue : Nasik, Maharashtra

National Youth Day in India, celebrated on January 12th, honors Swami Vivekananda's ideals to inspire the youth towards a better future. Initiated by the Indian Government in 1984, its objective is to instill national pride and educate youngsters about their rights. The day is marked by various activities, including the National Youth Festival since 1995, promoting cultural exchange and development. In 2024, the festival was held in Nasik, Maharashtra, showcasing the region's rich cultural heritage from January 12th to 16th.

DAY 1



The National Youth Festival 2024, held in Nasik, Maharashtra from January 12th to 16th, saw participation from over 18,000 youths representing different states and union territories, including NSS, NYKS, and volunteers. Two students 1) Joshi Ashray (CSE 6th Semester) & 2) Poorva Ravat (CSE 6th Semester) from GTU were selected to represent the institute. Inaugurated by Prime Minister Narendra Modi, along with other dignitaries, the event focused on motivating youth towards Vikshit Bharat 2047 and government schemes. The day concluded with a lively concert by Bollywood singer Niti Mohan, leaving participants with cherished memories and positive energy.

DAY 2

Day 2 of the event kicked off with a positive and enthusiastic start, featuring a Suvichar (Youth Convention) Session. Shri Vilas Shinde shared insights on effective farming techniques, emphasizing the importance of agriculture for India's development. Prateek Khandelwal inspired attendees with his journey from a life-altering accident to founding Ramp My City, a startup dedicated to making public spaces accessible for the physically handicapped. The day concluded with a lively music concert by the Street Bus Singers team, leaving participants energized and inspired.



DAY 3



On day three of the festival, we began with high energy, starting with the "Lakshya Geet" and two motivational sessions led by industry experts. Participants were encouraged to strive for excellence and contribute to the nation's development and the goal of Vikshit Bharat 2047. The day also featured expo stalls showcasing government schemes for startups and new inventions. Highlights included innovative technologies like the PVC pipe salt water welding machine and the High Altitude GPS Detection System. In the evening, a cultural show entertained everyone, leaving them with cherished memories and newfound knowledge.

DAY 4

Day four commenced with high spirits, starting with the uplifting "Lakshya Geet" and insightful sessions by esteemed figures, empowering youth to contribute to national development. Cultural stalls displayed diverse products reflecting India's rich heritage, while food stalls offered a taste of the nation's culinary diversity. The day concluded with participants departing enriched with memories and learnings.

DAY 5

The final day of the 27th National Youth Festival began with the customary "Lakshya Geet," evoking both energy and sadness as participants prepared to part ways. The valedictory event featured speeches by dignitaries, including the Sports & Youth Affairs Minister of Maharashtra, followed by prize distribution for state volunteer competitions. Emotions ran high as participants pledged to contribute to India's development by 2047, concluding the camp with lasting memories and lessons.



REPUBLIC DAY 2024

Event Date : 26th January 2024
Event Venue : Administrative Block

On 26th January, GEC Patan's NSS unit celebrated the Indian Constitution coming into effect, which holds the record for being the world's longest written constitution. The event began with the Principal hoisting the flag and the National Anthem. A NSS volunteer delivered a speech on the Constitution's historical journey, followed by a patriotic song by male volunteers. The Student Coordinator highlighted the Sahaj Foundation project and the Sainik Welfare Fund. Female NSS volunteers showcased their talents through a dance performance, and the event concluded with thanks from the NSS Student Coordinator.



National Voter's Day

Event Date : 25th January 2024
Venue : Electrical Dept. Seminar Hall

Every year on January 25th, National Voters Day is celebrated to raise awareness among voters, especially first-time voters. GEC Patan's NSS unit organized an event to spread awareness about voting. The event began with a prayer song, followed by the launch of Avsar-2024 awareness videos by the Electoral Commission of India. Students were informed about the process of obtaining a new voter card and enrolling in the voter list, including form-6 and Election Campus Ambassadors. They pledged to vote for deserving candidates without discrimination. The event ended with the National Anthem and valuable knowledge about the voting process.



Basic Rock Climbing Course

Event Date : 10th – 19th February 2024

Event Venue : Mount Abu, Rajasthan

The Ministry of Youth Affairs and Sports, Gujarat, organized a Basic Climbing Course camp at Mount Abu, Rajasthan, sponsored by both the ministry and Gujarat Technological University. Four volunteers from Government Engineering College, Patan, were chosen to represent GTU and GEC Patan at the Swami Vivekananda Institute of Mountaineering for the course. Among 100 students selected from various universities and states, GTU selected 80 volunteers from different colleges, with four chosen from GEC Patan: Diya Soni, Dev Patel, Vikhnesh Vijay, and Urva Prajapati, all from the computer department.

DAY 1



The day started at 5 am with a trip to Shanti Shikar for a stunning sunrise view. Explored Limdi Kothi caves, then learned rock climbing basics. Breakfast included milk, banana, and poha. Evening featured a rappelling session with various techniques demonstrated. Group activities followed, named "ropes." Day ended with talent showcases and anticipation for the journey ahead.

DAY 2

On February 11th, we started early at 5:00 am, gathering at the ground before heading to Nakki Lake for a day of adventure. Our activities included a round of Nakki Lake, followed by an exercise session led by our instructor who emphasized the importance of balanced exercise and demonstrated reverse pushups. We then moved to the basic rock climbing field and tackled the challenge of climbing rocks 38, 37, and 36. After a healthy breakfast, we had a lecture on various knots used in rock climbing. Back at the institute, Aditi Ma'am taught us about rock formation and terminology. In the evening, we learned long sling rappelling and how to tie ropes in a cantilever style. After dinner, we had an assembly session where many showcased their talents. Day 2 was a mix of learning and adventure.



DAY 3



On February 12th, we started our day at 5:00 am with our usual routine. We took a walk to Nakki Lake, did our exercises, and then tackled the challenges of rock climbing at fields 17 and 18. With safety gear and guidance from our instructors, we conquered the climbs and learned belay and rope fixing techniques. Back at the institute, Dhanraj sir gave a lecture on climbing techniques at 11:30 am. In the afternoon, we had a briefing on reporting call sequences before embarking on an exciting night trek to Som Singh Cave. Led only by our guides, we navigated through the dark cave. After returning safely, we had dinner and gathered for an assembly at 9:00 pm, marking the end of day.

DAY 4

On the 13th, our climbing expedition took us to rocks 14, 15, and 16, each presenting different formations. We utilized underhand and overhand layaway traversing techniques. Afterwards, we attended a lecture on belaying techniques and first aid, emphasizing safety. We wrapped up with a session on stomach rappelling and long sling rappelling at rocks 31(A) and 31(B) at Nakki Lake.

DAY 5

On February 14th, we started with our usual morning routine, gearing up for climbing sessions. Today, we tackled rocks 22, 23, and 24 before moving on to artificial wall climbing in the evening. Despite initially seeming easy, the controlled environment presented challenges that required strength and technique. With guidance from instructors and support from peers, we completed the session. Later, during our assembly, students showcased their talents through singing, stand-up comedy, shayaris, and more.



DAY 6

Day 6 began with typical routines. We tackled medium cracks on rocks 19 and 20A, employing hand and foot jamming techniques. Moving on, we mastered climbing on rocks 11c and 11d using these skills. A captivating lecture on mountaineering history followed. In the evening, we practiced American side rappelling on rock 19 and navigated through Dharm Katta rock's small hole. The day wrapped up with a lively assembly, including a fun ramp walk.

DAY 7

On Day 7, our training neared its end with upcoming revision and exam days ahead. We tackled the challenge of climbing rocks 13a, 13b, and 13c without belay support, relying solely on a single rope for safety. Demonstrating our proficiency after days of training, we also practiced chimney climbing on rock no 9, employing backing up and backing down techniques. In the evening, we embarked on a trek to Gaumukh point, navigating 750 stairs through breathtaking green forest to reach the Gaumukh temple.

DAY 8

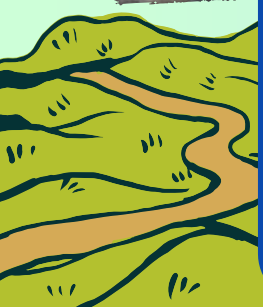
Day 8 started with an energetic run around Nakki Lake, a 2.2 km path. Then, we refreshed our rock climbing skills on various routes. Later, we learned about climbing gear and its usage. In the evening, some practiced artificial wall climbing, while others focused on knot tying for an upcoming exam.

DAY 9

Day 9 was the culmination of our journey, featuring the long-awaited exam and artificial wall climbing contests. The morning began with the exam, testing our climbing skills and knowledge acquired during the camp. In the afternoon, excitement soared as participants tackled the artificial wall, cheered on by their peers. The cheers fueled their determination to conquer the wall and reach new heights.

DAY 10

The final day of our basic rock climbing camp was filled with excitement and nostalgia as the sun rose. We gathered in our best attire, eager to celebrate our journey. Chief Guest IAS officer Gaurav Salunkhe honored us with his presence as speeches praised our dedication. Receiving our certificates filled us with pride, marking our achievement in mastering rock climbing. Laughter and camera clicks filled the air as we captured memories with friends and instructors. As the ceremony ended, we packed our backpacks with cherished memories, preparing to part ways. Grateful for the unforgettable moments, we bid farewell to the institute and each other, carrying the lessons and friendships with us forever.



Special Camp Kureja Village

Event Date : 20th-26th February 2024

Event Venue : Kureja, Patan

The NSS special camp at Kureja village from February 20th to 26th, 2024, aimed to foster community development and social engagement. Through various activities, it enhanced communication, public speaking, leadership, teamwork, problem-solving, adaptability, and time management skills. Organized annually by the NSS Unit of GEC Patan, it pushes volunteers out of their comfort zones, providing learning experiences and survival skills. The camp benefited both volunteers and the Kureja village community by fostering new perspectives and youth development.

DAY 1



The NSS special camp at Kureja primary school kicked off with a morning of cleaning and preparation. Guests including the principal and staff joined us for the ceremony at 11 a.m. The event featured speeches, including one from the principal of GEC Patan, motivating us for the upcoming 7-day camp. The day ended with the National Anthem. Later, senior volunteers led skill sessions and an evening rally focused on 'Beti Bachao, Beti Padhao'.

DAY 2

The second day of the special camp began with a morning Prabhat Pheri and Bhajan. Volunteers participated in a Yoga session to boost morale. The Day Coordinator divided volunteers into groups and assigned tasks like cleaning water pots, bird nests, and securing wires. After completing these tasks, volunteers cleaned the school premises and nearby village areas to promote cleanliness. Program officers visited, and everyone had lunch in Kunger village. College professors emphasized the importance of being NSS volunteers. Hanging pots and bird nests were initiated with their help. In the evening, volunteers gathered for a rally on Road Safety and performed a play to advocate for following traffic rules and government guidelines.



DAY 3



The day at camp started with morning prayers and breakfast. Volunteers were assigned tasks for the day's event on Law Awareness and Tree Plantation. The event featured Chairperson R.A. Nagoori from DLSA PATAN as the chief guest, along with other dignitaries. Nagoori addressed the audience on legal matters and shared her experiences, highlighting a case where she helped resolve an issue economically. The event concluded with a tree planting ceremony. Skill sessions and a rally on Organic Farming were conducted in the evening by senior volunteers and NSS members, emphasizing the importance of organic practices for a sustainable environment.

DAY 4

On February 23rd, the fourth day of a special camp kicked off with a Prabhat Pheri, a morning procession accompanied by Bhajan Kirtan. Volunteers then cleaned the school grounds, followed by the day coordinator assigning tasks to groups of volunteers. Snehal J. Modi, a Fire Station Officer, and professors from GEC Patan attended as guests. Snehal sir educated students and NSS volunteers on fire safety and the use of fire extinguishers. In the evening, NSS volunteers conducted a rally to promote water conservation in the village. They performed a comedic drama at the village square, emphasizing the importance of conserving water due to its dwindling availability.

DAY 5

The NSS Special camp at Kureja village highlighted Vikshit Bharat@2047 and voting awareness. Prof. H.S. Bhutadia and Prof. K.K. Rabari visited, emphasizing voter card importance and online registration ease. Married women face address change challenges, hindering voting rights. Youth, especially turning 18, urged to shape the nation through voting. NSS volunteers painted inspiring messages on the primary school walls, promoting civic responsibility and voting significance, showcasing remarkable teamwork and dedication in just one day.

DAY 6

The sixth day of the special camp began with a morning procession and devotional songs. NSS volunteers then engaged in a yoga session before gathering to organize a blood donation camp at the Amenities Block. Volunteers were divided into two groups: one prepared the camp setup while the other invited villagers to participate. With support from GMERS Medical College, Dharpur, the event was successful, collecting 33 units of blood. Participants were recognized with gifts and certificates. After lunch, a skill session was conducted, followed by reflections on the camp experience and singing the NSS song. In the evening, volunteers held a rally on substance abuse prevention in Kureja village. A concluding drama on the same topic was performed, thanking the community for their support.



Special Camp Kureja Village

Event Date : 20th-26th February 2024

Event Venue : Kureja, Patan



PM's Virtual Meet

Event Date : 13th March 2024
Event Venue : EE & CSE Dept. Seminar Hall

On March 13, 2024, GEC Patan's NSS unit hosted a special event to watch Prime Minister Narendra Modi participate in the "India's Techade: Chips for Vikshit Bharat" program via live YouTube session. The event began with welcoming the principal, professors, and students. At 10:30 a.m., the live session started with 3 lakh viewers from 470 districts and 60,000 educational institutions. PM Modi inaugurated three semiconductor projects worth 1.25 lakh crores via video conferencing, marking a significant milestone for India's future. He also launched the PM-SURAJ portal for social upliftment and employment and distributed Ayushman Health Cards and PPE kits to Safai Mitras. Modi emphasized the importance of inclusive development for achieving Vikshit Bharat@2047. The event ended with a sense of inspiration and concluded with the National Anthem.



Mera Pehla Vote Desh ke Liye

Event Date : 15th March 2024
Venue : ITI Rajpur

NSS GEC PATAN and ITI Rajpur collaborated on "Mera Pehla Vote, Desh Ke Liye" event on March 15th to educate first-time voters. BLO Dheerajbhai, ITI Rajpur Principal Rinku mam, and staff joined. Voting shapes society's future, ensuring government reflects people's will. First-time voting is pivotal for civic engagement, allowing new voters to influence decisions affecting their lives. Initiated by BLO Dheerajbhai, the event emphasized election importance and voter impact. NSS senior volunteers shared their first-time voting experiences, while voting program officers addressed new voters' queries, culminating in increased awareness and guidance.

*your vote
matters*



Sainik Welfare Fund

Date : 07 Dec'23 – 20 Mar'24

Place : Patan

Soldiers play a crucial role in safeguarding our nation's peace and freedom, deserving our utmost respect and support. To aid their families, our university annually issues a fundraising guide. In 2024, NSS volunteers from GEC Patan continued their tradition by collecting donations from various sources, totaling ₹1,21,121, the highest in eight years and in Gujarat State. This contribution was presented to the Vice-Chancellor of Gujarat Technological University on March 21, 2024, recognized as the largest among all affiliated NSS units for the year.



World Sparrow Day



Event Date : 20th March 2024
Venue : Harsh Plaza Complex, Lilivadi, Patan

World Sparrow Day, on March 20th, highlights the challenges faced by house sparrows and urban birds. It serves as a hub for collaboration among conservationists, researchers, and enthusiasts. The decline of house sparrows worldwide has spurred global concern and led to concerted conservation efforts. In 2023, NSS volunteers, in partnership with Aryavrat Nirman NGO, distributed 3000 water pots and bird nests in Patan. Nilesh bhai led the initiative, inspiring volunteers to actively participate. Registration facilitated online awareness, and participants pledged to protect nature.

