

# GEC PATAN NEWSLETTER

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OCT-DEC 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.



**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

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# EDITORIAL TEAM

## • EDITOR IN CHIEF

**Prof. M.B. PATEL**

## • MEMBERS

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**Prof. G. A. PATEL**

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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*

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

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## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



### Expert Lecture



On 14th October 2024, the Electronics and Communication Department of Government Engineering College Patan organized an expert lecture on "PCB Design," delivered by alumnus Mr. Soham Prajapati.



The session aimed to bridge the gap between theoretical knowledge and practical application in PCB design, covering topics such as PCB types, design tools like Altium Designer and KiCad, design guidelines, manufacturing processes, and real-world case studies. Mr. Prajapati also shared his academic and professional journey, inspiring attendees and providing career tips. Organized by Prof. Shyam Pankhaniya, the lecture was attended by over 50 students and faculty members, who appreciated its depth and clarity.



The event was a resounding success, leaving students motivated to explore opportunities in PCB design and modern electronics.





## DRONE DIDI



On 14th October 2024, the Women Development Cell of Government Engineering College Patan organized an expert lecture titled "Drone Didi," delivered by Shri Dimpalben Patel, known as Lakhapati Didi from Mithi Vavadi. The session aimed to inspire and empower women by showcasing her journey of resilience, entrepreneurial success, and community impact. Shri Patel shared her experiences of overcoming challenges, achieving financial independence, promoting skill development, and uplifting women through self-reliance. The event included an engaging Q&A session and received an overwhelmingly positive response from women students and faculty, who found her story highly motivating. The lecture was a resounding success, leaving attendees inspired to pursue self-reliance and contribute meaningfully to society.



# FACULTY ACTIVITIES



## Papers Presented/Published



Prof. (Dr.) D K Patel published a research article on "Numerical and Experimental Analysis of Tip Clearance Effect of Low-Speed Axial Flow Fan" on dated December 20, 2024, SAE Technical Paper 2024-01-6009, 2024. doi:10.4271/2024-01-6009



Prof. (Dr.) Kaushik Patel published article on "Development of thermodynamic relation for mean density of mixture in the risers of natural circulation boilers" in Applied Chemical Engineering Vol. 7 No. 4 (2024): Vol. 7 No. 4(Publishing) on date 31/12/2024.,  
<https://doi.org/10.59429/ace.v7i4.5555>



## Activity



Prof. Yogesh Patel has successfully completed the NPTEL MOOC course of 12 weeks with a score of 75%.





# COMPUTER SCIENCE ENGINEERING DEPARTMENT

## FACULTY ACTIVITIES



N O	Title	Name of the faculty	Place	Duration
1	INDUSTRIAL TRAINING ON ARTIFICIAL INTELLIGENCE	ADESH V PANCHAL	SAHANA SYSTEM LTD AHMEDABAD	2 WEEK 16/12/24 TO 28/12/2024
2	INDUSTRIAL TRAINING ON ARTIFICIAL INTELLIGENCE	HARSAHD L CHAUDHARI	SAHANA SYSTEM LTD AHMEDABAD	2 WEEK 16/12/24 TO 28/12/2024
3	FDP on “Artificial Intelligence in IoT and Aerial Robotics”	Sachinkumar Harshadbhai Makwana	Kilachand Devchand Polytechnic, Patan	1 WEEK 16/12/24 TO 21/12/24
4	FDP on “Artificial Intelligence in IoT and Aerial Robotics”	Haresh Dhanji Chande	Kilachand Devchand Polytechnic, Patan	1 WEEK 16/12/24 TO 21/12/24
5	FDP on “Artificial Intelligence in IoT and Aerial Robotics”	Dr. Khushali R Raval	Kilachand Devchand Polytechnic, Patan	1 WEEK 16/12/24 TO 21/12/24
6	FDP on “Deep Learning”	Yogesh B. Patel	NPTEL Online	12 WEEK 22 Jul 2024 to 11 Oct 2024
7	Training on “ digital empowerment and cyber safety”	Viral B. Pansiniya	KCG	11/12/24 TO 12/12/24
8	Training on “ digital empowerment and cyber safety”	Hiral Y Rathod	KCG	11/12/24 TO 12/12/24





# ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

## FACULTY ACTIVITIES



Sr. No	Title	Name of the faculty	Place	Duration
1	FDP "Semiconductor Chip Design and Application"	Prof. Roshani A. Chaudhary	EC Dept., Vidyanagar	25/11/2024 to 30/11/2024
2	FDP "Semiconductor Chip Design and Application"	Prof. Mehul L. Patel	EC Dept., Vidyanagar	25/11/2024 to 30/11/2024
3	ATAL FDP "AI and Digital Technologies for Sustainable Healthcare and Medical Technologies"	Dr. Jayesh .C. Prajapati	Institute of Technology, Nirma University	25/11/2024 to 30/11/2024



## STUDENT ACTIVITIES



JHA MANISH NABONATH student of 1st sem 240220119008 take part in BRC camp in Abu on November 15



Aryan Singh , 1st sem mechanical student 240220119001 participate in Certificate for Completion of Introduction to Computers Training / Date:- December 7th 2024 / Place :- GOVERNMENT ENGINEERING COLLEGE, PATAN

Krishna Alpeshkumar Panchal, 240220106023 1 st Mechanical Engineering take participate in SIH-Internal Hackathon 2024, Organised bySSIP Cell of Government Engineering College, Patan, On 10th September 2024





# NSS ACTIVITIES



## Swachhata Hi Seva 2024

Event Date : 1st October 2024  
Event Venue : GECP College Campus

The Swachh Bharat Abhiyan, launched by Prime Minister Shri Narendra Modi on October 2, 2014, is celebrated annually as Swachh Bharat Diwas. In 2024, the theme “Swabhav Swachhata, Sanskaar Swachhata” inspired the Swachhata Hi Seva Campaign, held from September 17 to October 2. NSS GEC Patan contributed by organizing a Cleanliness Drive, Elocution, Rangoli, and Quiz Competitions. Activities began at 7 a.m. with Rangoli at the college entrance, followed by a spirited Cleanliness Drive at 9 a.m., where volunteers cleaned the campus, showcasing teamwork. An online quiz saw 135 participants enhancing their knowledge on Swachhata Hi Seva. The main event, held in the seminar hall, included a welcome ceremony, video presentations, and an elocution competition judged by Professors Roshni Chaudhari and Khushali Raval. The event concluded with motivational words from the judges and prize distribution to encourage participants.



## Swachhata Jumbesh 4.0 (Phase-2)

Event Date : 1st October to 30th October, 2024  
Event Venue : GECP College Campus

The Swachhata Jumbesh 4.0 campaign, conducted by the Indian Government from October 1 to 30, focused on cleanliness and minimizing pendency across higher education institutions. NSS GEC Patan actively participated in this initiative with a month-long cleanliness drive, dividing efforts into four weeks. In Week 1, volunteers cleaned the main campus, focusing on pathways, administrative blocks, and non-biodegradable waste while raising awareness among students and faculty. Week 2 emphasized cleaning classrooms, laboratories, and department surroundings, ensuring hygienic learning spaces. Week 3 targeted the New Amenity Block, canteen, seminar halls, and outdoor areas, promoting environmental protection by maintaining greenery and proper waste disposal. Finally, Week 4 revisited the campus to ensure sustained cleanliness, motivating staff and students to uphold hygiene practices. The campaign successfully fostered a lasting culture of cleanliness and environmental responsibility within the campus community.







# NSS ACTIVITIES

## Vikas Saptah Ujavani

Event Date : 7th to 15th October 2024

Event Venue : GECP College Campus

Bharat Vikas Saptah was celebrated from 7th and 15th October 2024 with the competitions and various activities of developmental achievements and goals. The events aimed to raise awareness about "Viksit Bharat 2047" and promote the vision of "Ek Bharat Shreshtha Bharat." Activities included an elocution competition on the theme "Ek Bharat Shreshtha Bharat" and an oath ceremony (Bharat Vikas Shapath Vidhi) for new students. The events witnessed active participation from 197 students across two days, conducted offline in the Electrical Seminar Room, fostering engagement and enthusiasm among participants from within the institute.



## Manushya Gaurav Divas

Event Date : 19th October 2024

Event Venue : Electrical Seminar Hall

Manushya Gaurav Divas was celebrated on 19th October by NSS GEC Patan in collaboration with the Psychology Club of GEC Patan. The event featured inspiring speeches by esteemed guests, including Principal Dr. Anand B. Dhruv Sir, Prof. G. A. Patel Sir (HOD, Electrical Department) Dr. H. S. Bhutadia Sir, Dr. A. K. Choudhary Sir, and Dr. H. D. Patel Sir. Their words motivated and enlightened the audience, emphasizing the importance of human values and excellence. The event also included a highly interactive presentation, effectively conveying the core message and engaging participants in meaningful discussions, making the celebration both impactful and memorable.







# NSS ACTIVITIES



## National Integration Camp

Event Date : 11th October to 17th  
October, 2024

Venue : GJUST- Hisar, Haryana

The National Integration Camp (NIC) 2024, hosted by Guru Jambheshwar University of Science & Technology in Hisar from October 11-17, brought together over 200 participants from 20+ universities across 16 states, fostering cultural understanding and national unity. The camp, organized by the National Service Scheme (NSS), featured a delegation from Gujarat Technological University, led by Program Officer Nimesh Prajapati, along with eight volunteers. Throughout the week, participants engaged in technical sessions, cultural exchanges, workshops, and excursions, celebrating India's rich heritage and diversity. Activities included discussions on leadership, digital literacy, and legal literacy, as well as creative competitions, sports events, and a memorable visit to Kurukshetra to explore its historical and spiritual significance.

The camp concluded with impactful events like a rally, cultural performances, and community service, instilling a sense of social responsibility and patriotism. The valedictory ceremony highlighted the achievements of participants and emphasized the importance of national integration. The week-long experience fostered lifelong friendships, cultural appreciation, and a renewed commitment to unity and community-building. Participants departed with cherished memories and a collective determination to drive positive change in their respective regions.



On October 18, 2024, Government Engineering College, Patan, hosted a Youth Parliament event as part of the 4th Edition of the National Youth Parliament Scheme (NYPS), an initiative by the Government of India. Organized under the leadership of Chief Patrons Dr. Bharat J. Shah and Dr. Anand B. Dhruv, and guided by Dr. A.K. Chaudhary and Dr. Harshad Bhutadia, the event provided students with an immersive experience in parliamentary procedures. It aimed to instill leadership values, promote active citizenship, and enhance public speaking and debating skills. The opening ceremony featured keynote addresses by Dr. A. K. Chaudhary, who emphasized the role of youth in nation-building, and Dr. H. S. Bhutadia, who encouraged students to voice their opinions confidently.

The event adhered to official parliamentary protocols, with 41 students assuming roles such as Speaker, Prime Minister, Opposition Leader, and Members of Parliament. Discussions covered topics like health concerns, climate change, national security, digital economy, and gender equality. Judges, including faculty members like Dr. A. K. Chaudhary, Dr. H. S. Bhutadia, Prof. M. V. Patel, Prof. B. B. Patel and Prof. Roshni Chaudhari, evaluated participants on debating skills, adherence to procedures, and teamwork. The students' enthusiasm and well-researched presentations highlighted their preparedness, making the event a resounding success in fostering informed and responsible future leaders.







# NSS ACTIVITIES



## National Integration Camp

Event Date : 8th November to 14th  
November, 2024

Venue : HNGU Patan, Gujarat

This year National Integration Camp 2024, was organized by Government of India Ministry Of Youth Affairs & Sports, NSS Regional Directorate Ahmedabad and Hemchandracharya North Gujarat University, Patan from 8th to 14th November, 2024. A total of 10 Volunteers Selected from Gujarat Technological University- Ahmedabad. There were 2 Volunteers from GEC-PATAN (Dev Sharma and Krisha Panchal), 2 Volunteers from GEC-GODHRA, 2 Volunteers from APC-ANAND, 2 Volunteers from GPC-DAHOD, 1 Volunteer from SPEC ANAND, 1 Volunteer from VGEC-AHMEDABAD. In this Camp a total of 210 Volunteers were present from 10 different states and 1 Union Territory of India including Assam, Andhra Pradesh, Chhattisgarh, Haryana, Orissa, Maharashtra, Rajasthan, Madhya Pradesh, West Bengal, Gujarat and Dadra Nagar Haveli and Diu Daman. The day starts at 6:30 in the morning with a one-hour yoga session, followed by a workshop session of 2 hours on topics such as Sand Art, Photography, Garba, Self-Defense. After that an academic session was held by different distinguished speakers on various topics. After lunch, volunteers divided in groups to share their views on the topics as per schedule. Competitions on Traditional Costume Attire, Poster making, Mono Acting, Solo singing, Rangoli, Group Dance were conducted. At the end of day the Cultural Program of different states were represented by the volunteers from their respective states.







# NSS ACTIVITIES



## West Zone Pre-Republic Day Parade Camp

Event Date : 12th November to 21th November, 2024

Event Venue : KBNMU Jalgaon, Pune.

The Pre-Republic Day Parade Camp 2024 at KBCNEMU, Jalgaon, brought together over 200 NSS volunteers from western India for a transformative 10-day program emphasizing discipline, unity, patriotism, and leadership. Out of 4 Students one was from our College GEC Patan Nishtha Patel (5th Sem CSE), Under the guidance of the Ministry of Youth Affairs and Sports and the NSS Regional Directorate, Pune, the camp combined rigorous parade drills, cultural performances, and interactive sessions to foster teamwork, critical thinking, and collaboration. Volunteers participated in diverse activities such as yoga, physical training, discussions on national integration, and cultural showcases that celebrated India's rich heritage. The camp also featured inspiring sessions on topics like cyber security and the role of youth in nation-building, creating a platform for holistic development.

The event's highlights included the selection rounds for the Republic Day Parade, vibrant cultural performances, and meaningful discussions on national issues, culminating in a grand celebration of National Integration Day. The final day marked a heartfelt convocation ceremony graced by dignitaries, recognizing the efforts of participants and organizers. Volunteers left the camp with a renewed sense of responsibility and patriotism, inspired by the shared experiences and the bonds they formed, symbolizing the camp's overarching message of unity, discipline, and service to the nation.





# NSS ACTIVITIES

## Indian Constitution Day Seminar

Event Date : 26th November 2024

Event Venue : Electrical Seminar Hall

NSS GEC Patan celebrated Indian Constitution Day on November 26th, 2024, at Government Engineering College, Patan, to honor the adoption of the Constitution and raise awareness of its significance. The event featured an inspiring address by Prof. N.K. Dabhi on the core values of justice, liberty, equality, and fraternity, with 96 students actively participating in discussions on constitutional principles. Highlights included the collective recitation of the Preamble, fostering unity and responsibility, and reflections on the Constitution's role in shaping citizens' rights and duties. The celebration concluded with a vote of thanks, leaving participants inspired to uphold constitutional values in daily life.



## The Viksit Bharat Challenge

Event Date : 25th November to 10th December 2024

Event Venue : College Campus

The Viksit Bharat Challenge was held from 25th November to 10th December 2024 as part of the National Youth Festival's Young Leaders Dialogue Celebration. The event featured a Quiz Competition and an Essay Writing Competition, aiming to inspire youth to envision and contribute towards the mission of a "Viksit Bharat 2047." Both activities fostered critical thinking and creativity, encouraging participants to delve into topics of national development and leadership. The challenge witnessed enthusiastic participation, creating a platform for young minds to express their ideas and demonstrate their knowledge, aligning with the festival's vision of empowering future leaders.





# Veer Bal Diwas

Event Date : 26th December 2024

Event Venue : Electrical Seminar Hall

The NSS Unit of GEC Patan organized an inspiring event on Veer Bal Diwas to honor the courage and supreme sacrifice of the Sahibzadas, the four sons of Guru Gobind Singh Ji, who stood unwavering in their commitment to righteousness and faith. An Elocution Competition was held for high school students of Kungher Village in the Patan district, with enthusiastic participation from 68 students. The event began with a motivating address by NSS Program Officer, Prof. N. K. Dabhi, who encouraged students to be fearless in their pursuit of truth and contribute to nation-building. Professors and attendees witnessed passionate speeches that paid tribute to the Sahibzadas' valiant legacy and timeless values. This event not only celebrated history but also fostered public speaking skills, patriotism, and moral values, leaving a profound impact on all participants.



## \* SUPPORT TEAM \*

1. Prof. Adesh V. Panchal
2. Prof. Sachin H. Makwana
3. Abhishek H. Mehta (230220131055)
4. Piyush K. Ladumor (230220131002)