

# GEC PATAN NEWSLETTER

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JUL-SEP 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

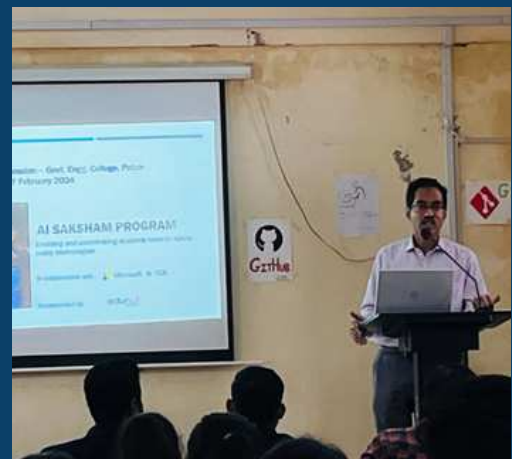
To impart the technical education as per the state and national policy which satisfy the current needs of the society, to interact with the industry and research organizations for the integrated growth, to make the liaison with statutory and professional Organizations and to provide the training and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

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## • MEMBERS

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**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 APR-JUN](#)
- [2024 JAN-MAR](#)
- [2023 OCT-DEC](#)
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## ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



### INDUSTRIAL VISIT



The industrial visit to PCB Power was an enriching experience for the students, offering them firsthand exposure to the PCB manufacturing industry. The visit bridged the gap between theoretical knowledge and practical application, making it a highly informative and beneficial experience. The Electronics and Communication Engineering Department expresses gratitude to PCB Power for facilitating this valuable learning opportunity.



#### Student Learnings

The visit provided students with valuable insights into the PCB manufacturing industry, including:

- **Manufacturing processes:** Students learned about the various stages involved in PCB fabrication and assembly.
- **Quality control and testing:** Students understood the importance of quality control in ensuring the reliability of PCBs.
- **Industry trends and technologies:** Students were exposed to the latest advancements in PCB manufacturing technology.



- **Career opportunities:** The visit helped students explore potential career paths in the PCB industry.



# DEPARTMENTAL ACTIVITIES



## MECHANICAL ENGINEERING DEPARTMENT



### INDUSTRIAL VISIT



Students from the 5th semester of the Mechanical Department at GEC Patan embarked on an insightful industrial visit to industrial visit at NAMTECH company which is situated in industrial park IIT Gandhinagar on 24 September 2024 . Accompanied by Prof. B B Patel Patel and Prof. R A Oza and Prof. V. K .Patel the visit aimed to deepen their understanding of sustainable technologies and their applications in real-world settings.



Industrial visit for 7th sem mechanical student at Gujarat Apollo Industries Limited, Dholasan, Near Shankus Water Park, Mehsana - 382 732 on date 1/10/20247 Accompanied by Dr. S. P. Patel. The visit aimed to deepen their understanding of sustainable technologies and their applications in real-world settings.





## CIVIL ENGINEERING DEPARTMENT



GOVERNMENT ENGINEERING COLLEGE, KATPUR, PATAN, GUJARAT, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on **AI/ML for Geodata Analysis**. This online programme was conducted during August 19, 2024 to August 23, 2024



GOVERNMENT ENGINEERING COLLEGE, KATPUR, PATAN, GUJARAT, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on **Understanding Cryospheric Hazards**. This online programme was conducted during September 06, 2024 to September 06, 2024





## APPLIED MECHANICS DEPARTMENT

### WORKSHOP on AutoCAD and Sketch-UP

The workshop was held at "Civil Seminar Hall" of GAE-Patan, on 12th August 2024, aimed at driving forward knowledge in students about the Drafting and 3D Modelling of structures using AutoCAD and Sketch-up software tools and allowing exchanges of views between Esteemed Industrial Experts of SAICAD and Civil Engineering Students of GEC-Patan. The workshop was attended by 40 participating students of Civil Engineering department of GEC-Patan and got benefit of the same.



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As the workshop was aimed to expand the knowledge of the students about the Drafting and 3D Modeling of structures using AutoCAD and Sketch-up software tools by allowing exchanges of views between Expert Personals of SAICAD & students and we collectively meet the requisite of the event successfully at the end of day. Participants were participated with great enthusiasm and enjoyed the benefit of the workshop.



PPO F9 Pro · ©H. R. Trivedi  
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# DEPARTMENTAL ACTIVITIES



## COMPUTER SCIENCE & ENGINEERING DEPARTMENT



### SMART INDIA HACKATHON



Internal Hackathon was organized on 10th September, 2024 at Seminar Hall of Amenity Block of GECP Campus by our College under the Novel Initiative of Smart India Hackathon 2024. It got an overwhelming participation of 25 teams consisting of 150 students. Teams brainstormed on various Problem statements and presented their Problem Solving Approaches. This Competition Enriched students with Creative Thinking and Problem Solving Skills. They got an opportunity to work on National level problems and got a progressive experience for working on Real-world Problems and contribute in the development of Mankind.



# FACULTY ACTIVITIES



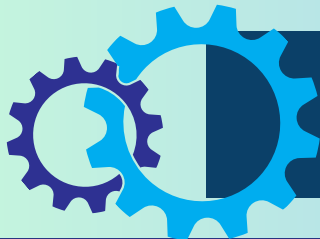
## Papers Presented/Published



Prof. (Dr.) D K Patel published a research article on “Investigation of varying tip clearance gap and operating conditions on the fulfilment of low speed axial flow fan” on dated October 1, 2024, International Journal of Turbo Jet Engine 2024 with DOI <https://doi.org/10.1515/tjj-2024-0067>



Dr.Haresh L. Judal, has published the paper on “Towards 6G:Next Generation Wireless Systems ” in Journal of Electrical Systems in Vol. 20 No. 3 (2024) ISSN: 1112-5209



## 1-Day Workshop

Prof. Rakesh A. Oza and Prof. B. B. Patel organized One-Day Workshop on “Industrial SolidWorks & GD&T” on Date: 13th August 2024 for final year student.

The one-day workshop on “Industrial SolidWorks & GD&T” was a successful initiative that bridged the gap between academic knowledge and industry requirements. It provided students with valuable insights into the practical applications of these tools and the skills needed to excel in the competitive job market. The faculty members also benefited from the workshop, as it enriched their teaching methodology with up-to-date industry practices. Around 46 student have taken benefit of this workshop.





## COMPUTER SCIENCE & ENGINEERING DEPARTMENT

Month	Company Visited	Selected Students
<b>JULY</b>	<b>Wappnet Systems Pvt. Ltd.</b>	Aayush Pandya [3.15 LPA]
<b>August</b>	<b>Brevitaz Systems</b>	Awasthi Kunal Indreshkumar [3.5 - 4.0 LPA]
		Jinesh Patel [3.5 - 4.0 LPA]
		Shaikh Sakir Naeem [3.5 - 4.0 LPA]
		Mohammad Machhaliya [3.5 - 4.0 LPA]
		Jaydeep Kuber [3.0-3.5 LPA]
		Pranjal Panchal [3.0-3.5 LPA]
	<b>La Net Team Software Solutions</b>	Patel Harsh [3.6-5.04 LPA]
		Neel Patel [3.6-5.04 LPA]
		Vikhnesh Pillai [3.6-5.04 LPA]
<b>September</b>	<b>Innovix Tech Solutions Pvt. Ltd.</b>	Purviben Patel [2.4-3.4 LPA]
		Rajbha Jadiya [2.4-3.4 LPA]
	<b>SilverTouch Technologies Pvt. Ltd</b>	Aryan Panchal [3.0 - 3.6 LPA]
		Jyoti Jha [3.0 - 3.6 LPA]



# FACULTY ACTIVITIES



## CIVIL ENGINEERING DEPARTMENT



## FACULTY ACTIVITIES



Prof. V.D.Patel and Dr. V. M. PATEL, has coordinated the online training course on AI/ML for Geodata Analysis during 19/08-23/08/2024 and



Understanding Cryospheric Hazards on 06/09/2024 conducted by Indian Institute of Remote Sensing, ISRO Dehardun.





# MECHANICAL ENGINEERING DEPARTMENT

## FACULTY ACTIVITIES



N O	Title	Name of the faculty	Place	Duration
1	Industrial Training at Mehsana Dairy and food Products Limited	Prof. C. C. Patel	Mahesana, Off line	15-07-2024 to 27/07/2024
2	Industrial Training at Atlas Technologies Pvt. Ltd.	Prof. (Dr.) H.R.Parjapati	Atlas Technologies Pvt. Ltd.	15-07-2024 to 28/07/2024
3	Industrial Training at Mehsana Dairy and food Products Limited	Prof. N. R. Makwana	Mehsana, Offline	15-07-2024 to 27/07/2024
4	INDUSTRIAL TRAINING AT ROYAL CASTOR PRODUCTS LIMITED	Prof. K. H. Thakkar	ROYAL CASTOR PRODUCTS LIMITED, khali.	15-07-2024 to 28/07/2024
5	Industrial Training at APS	Prof M. G. Patel	Tajpur, Offline	15-07-2024 to 26/07/2024
6	INDUSTRIAL TRAINING AT ROYAL CASTOR PRODUCTS LIMITED	Prof. V. K. Patel	ROYAL CASTOR PRODUCTS LIMITED, khali.	15-07-2024 to 28/07/2024
7	Industrial Training at Royal Castor Products Ltd.	Prof. R. A. Oza	At. Khali, Mehsana-Siddhpur Highway,Siddhpur	08-07-2024 to 21/07/2024
8	Industrial Training at Royal Castor Products Limited	Prof. B. B. Patel	Royal Castor Products Limited, Siddhpur	08-07-2024 to 21/07/2024
9	Industrial Training at Mehsana Dairy and food Products Limited	Prof M. G. Patel	Mehsana, Offline	01-07-2024 to 13/07/2024



# ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

## FACULTY ACTIVITIES



Sr. No	Title	Name of the faculty	Place	Duration
1	Industrial Training at E-infochips Private Limited	Prof. Haresh L.Judal	Ahmedabad	01/07/2024 to 14/07/2024
2	Industrial Training at E-infochips Private Limited	Prof. Mihir M. Patel	Ahmedabad	01/07/2024 to 14/07/2024
3	Industrial Training at E-infochips Private Limited	Prof. Maulik B. Patel	Ahmedabad	01/07/2024 to 14/07/2024
4	Industrial Training at E-infochips Private Limited	Prof. Jayesh C. Prajapati	Ahmedabad	01/07/2024 to 14/07/2024
5	Industrial Training at E-infochips Private Limited	Prof. Shyam A. Pankhaniya	Ahmedabad	01/07/2024 to 14/07/2024
6	Industrial Training at E-infochips Private Limited	Prof. Mehul L. Patel	Ahmedabad	01/07/2024 to 14/07/2024
7	Industrial Training at ANTS Global System (Alpha Numero) Private Limited	Prof. Haresh L.Judal	Ahmedabad	15/07/2024 to 26/07/2024
8	Industrial Training at Mehsana dairy and food products limited.	Prof Roshani A.Chaudhary	Mehsana	15/07/2024 to 26/07/2024
9	One day workshop on "Fundamentals of semiconductor package Manufacturing and test" by Micron team.	Prof Roshani A.Chaudhary	GTU, Ahmedabad	07/08/2024



# STUDENT ACTIVITY



## BOYS HOSTEL



### GANESH CHATURTHI



The Ganesh Chaturthi celebration at GEC Patan Boys Hostel, held from 7th to 11th September, was a grand event filled with devotion and joy. The festivities began with the Sthapana of Lord Ganesh, followed by a series of vibrant rituals. The Maha Aarti with 56 Bhog, a highlight of the event, brought together college faculty and students in a shared moment of reverence. The sacred Satyanarayan Katha added a spiritual dimension, fostering a deep sense of community and devotion among all participants.



In the evenings, the hostel echoed with the sounds of Garba, as students danced with energy and enthusiasm. The Bhajan Sandhya further enhanced the spiritual atmosphere, with soulful hymns sung in praise of Lord Ganesh. The celebration concluded with the eco-friendly Visarjan of the Ganesha idol within the hostel, emphasizing sustainability. The festival was a blend of cultural and religious fervor, uniting students, faculty, and staff in a memorable celebration that left a lasting impression on all who participated.





# STUDENT ACTIVITY



## BOYS HOSTEL

### Cleanliness and Tree Plantation Drive



The students of GEC Patan Boys Hostel actively participated in a cleanliness drive under the guidance of Prof. Bhargav Patel(Warden) and Prof. Jay Patel(Asst. Warden), demonstrating their commitment to maintaining a clean and healthy environment. The drive focused on cleaning the hostel premises, common areas, and surrounding grounds. Students worked together, ensuring that every corner was spotless, promoting hygiene and a sense of responsibility. The initiative not only improved the cleanliness of the hostel but also fostered teamwork and awareness about the importance of a clean living environment.

In addition to the cleanliness drive, the students also took part in a tree plantation drive. They planted saplings around the hostel, contributing to a greener and more sustainable campus. The event aimed to raise awareness about environmental conservation and the importance of trees in combating climate change. This collaborative effort between students and faculty strengthened the hostel community's dedication to environmental responsibility and left a lasting positive impact on the campus surroundings.







## GIRLS HOSTEL

### GANESH CHATURTHI



Ganesh Chaturthi was celebrated at the GEC Patan Girls Hostel from September 7 to September 12. The event aimed to promote unity, cultural awareness, and spiritual growth among the hostel residents. Throughout the celebration, both the residents and the staff were brought together in a joyful display of togetherness and spirituality.



The hostel committee members took charge of managing the event. The hostel premises were adorned with vibrant decorations and intricate rangoli designs, while a carefully selected Ganesh idol was worshipped during the five days of puja. The responsibilities of performing the aarti and distributing prasad were shared among five designated rooms. Additionally, various activities such as Maha Aarti with 56 bhog and 108 Diyas, Garba, Bhajan, and more were organized to further enhance the festive spirit.





# COMMITTEE



## SOCIAL MEDIA COMMITTEE



### SMC FAREWELL



On 25th September, the Social Media Committee of GEC Patan hosted a heartfelt farewell event for the senior batch, filled with speeches, shared memories, and camaraderie. The event began with a welcome speech by Committee Lead Mr. Kabir Dafda, followed by inspiring remarks from the Principal Dr. B.J. Shah, Dr. A.B. Dhruv, and Dr. H.B. Jethva, who all highlighted the achievements of the seniors and encouraged them to strive for excellence. Committee Coordinator Prof. Sachin Makwana and guest Dr. Khusali Raval also delivered motivational speeches, emphasizing the importance of staying connected.

The farewell event included a certificate-giving ceremony to honor the seniors for their contributions and achievements, with applause and cheers from their peers. The seniors then shared their personal experiences and memories, after which the event concluded with snacks and cold drinks, allowing everyone to mingle, take photos, and enjoy the final moments of the evening. The farewell was a touching tribute, celebrating the seniors' journey and wishing them success in the future.





# NSS ACTIVITIES



## Tree Plantation Drive

Event Date : 10th July 2024  
Event Venue : GECP College Campus

In response to the growing challenges posed by climate change and extreme weather events, the Hon'ble Prime Minister of India, Shri Narendra Modi, launched the "एक पेड़ माँ के नाम" campaign, encouraging citizens to plant trees. On 10th July 2024, the NSS unit of Government Engineering College, Patan, organized a tree plantation drive on campus as part of this initiative. The event, attended by college principal Dr. B.J. Shah, faculty members, and NSS volunteers, involved the planting of 80 trees, including Amla, Jambudo, and Gulmohar. The participants took an oath to nurture the trees, and plants were also distributed to local residents. The drive concluded with a briefing on environmental awareness by NSS Program Officer N.K. Dabhi Sir.



## Seedball Distribution Abhiyan

Event Date : 16th July 2024  
Venue : KATPUR and RAJPUR Village

A seed ball is a low-cost and effective way of promoting fast plantation by encasing seeds in a mixture of soil and compost, protecting them from drying out or being eaten. On 10th July 2024, NSS volunteers from Government Engineering College Patan made 200 seed balls using seeds of plants like cabbage, okra, peas, and brinjal. These were distributed on 16th July 2024 to farmers and villagers of Katpur and Rajpur, where the volunteers explained the benefits and planting process of seed balls. The initiative successfully raised environmental awareness and encouraged villagers to adopt this eco-friendly method, contributing to a greener India.





# NSS ACTIVITIES



## Guru Purnima

Event Date : 22nd July 2024

Event Venue : GEC P College Campus

Guru Purnima, a festival honoring spiritual and academic gurus, was celebrated by NSS volunteers at GEC Patan on 22nd July 2024. The volunteers expressed their gratitude by felicitating respected faculty, administrative staff, and workers through a traditional Tilak ceremony. Divided into groups, they visited faculties, HODs, and the Principal, Dr. B.J. Shah, who offered his blessings for their bright future. The event highlighted the importance of gurus in our lives and reinforced the college's commitment to preserving cultural traditions and fostering a supportive academic community.



## Fire Safety Awareness Programme

Event Date : 26th July 2024

Venue : New Amenity Block Seminar Hall

Fire safety measures are crucial for saving lives, protecting property, and ensuring legal compliance through early warnings like alarms and suppression systems that help control fires. To raise awareness of these measures, NSS GEC Patan organized a fire safety awareness program on 26th July 2024, led by Fire Officer Snehal Modi from Patan Station. The session, guided by a PowerPoint presentation, covered essential fire prevention techniques, the use of fire extinguishers, and evacuation procedures. Principal Dr. B. J. Shah emphasized the importance of fire safety, while NSS volunteers facilitated the session, ensuring students understood key concepts and the significance of regular fire drills.



Government Engineering College Patan in collaboration with District Officer Nilesh Desai, dedicated to ensuring children's safety and well-being had organized a Nasha Mukti Bharat Abhiyan event. This initiative aims to educate and aware children about the dangers of substance abuse and addiction, promoting a healthier and safer lifestyle.

The event was organized at Electrical Seminar Hall, GEC Patan. The event commenced at 11 a.m. First, we welcomed our all guest with flower bouquet. The event started by deep pragtya, with a soulful rendition of NSS song. Afterwards, our District Officer Nilesh Desai and our professor gave the speech on Nasha Mukti Bharat Abhiyan. Then we pledged to uphold the cause of nasha mukti, dedicating ourselves to creating a society free from the grip of addiction. The event concluded by the resonation of National Anthem.

The campaign reflects the government's commitment to addressing the growing issue of substance abuse, which poses significant social, economic, and health challenges to the country. Through interactive sessions, expert talks, and engaging activities, we strive to empower children with knowledge and skills to make informed choices, fostering a secure and nurturing environment for their growth and development. Together, we can create a brighter, addiction-free future for our young generation.



# Anti-Ragging Awareness Event

Event Date : 13th August 2024  
Event Venue : Electrical Seminar Hall

On 13th August 2024, Government Engineering College, Patan, observed Anti-Ragging Day, organized by the NSS unit to foster a harmonious, ragging-free environment for students, particularly the new entrants. The event, held in the presence of the principal, faculty, and newly admitted students, began at 11:00 am with the melodious NSS song, followed by a warm welcome to the chief guest. The chief guest addressed the gathering, discussing the negative impact of ragging on student life and offering preventive measures to ensure a safe and supportive campus environment.

The college principal reinforced the institution's commitment to preventing ragging and assured continuous awareness efforts to uphold a ragging-free campus. Throughout the event, students creatively conveyed the anti-ragging message through performances, songs, and speeches, encouraging unity and respect among peers. The program concluded with an oath of "Anti-Ragging," affirming the collective dedication of students and staff to fostering a safe, inclusive space for all. The event was a resounding success, leaving a lasting impact on the participants.



## \* SUPPORT TEAM \*

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