

# INFRACREATOR

## Newsletter

ISSUE 15 (JUNE 2025)



**GOVERNMENT  
POLYTECHNIC  
PALANPUR**



**CIVIL ENGINEERING  
DEPARTMENT**



### ABOUT THE DEPARTMENT

Started in 1984, Civil Engineering Department, Government Polytechnic Palanpur offers 3 years (6 semester) Diploma Civil Engineering Program with 90 intake capacity.

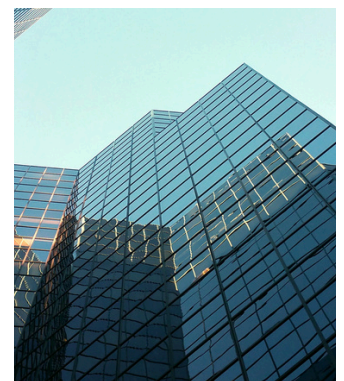
This Program is Approved by All India Council for Technical Education (AICTE) and Affiliated to Gujarat Technological University, Ahmedabad (GTU).

### Vision

The department envisions to achieve professionals in emerging field of civil engineering to meet aspirations of the society, by transforming students to be technically skilled, managers, ethical, entrepreneur's leaders, and environmentally sensible civil engineers.

### Mission

- To impart civil engineering skill to enhance their employability in the industries.
- Establish industry collaboration through internship and interaction with professional society through experts, workshops
- 3Promote leadership, management, entrepreneurship skills in a student through various projects, co-curriculum, extra-curriculum events.
- 4Impart social, environment awareness and responsibility in students to serve society and industry to promote sustainable growth.



01/10



# HOD's Message

Greetings from the Civil Engineering Department.

The Department of Civil Engineering aspires to excellence in professional development that is morally grounded in teaching and learning. We take great pride in having our academic program supported by cutting-edge laboratories and technical personnel. We have a creative, well-balanced teaching-learning environment, as well as a highly skilled and committed faculty. For the purpose of their own growth, the students are encouraged to engage in co-curricular and extracurricular activities, too.

## Newsletter Committee



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- Mr J N CHAUDHARY (Lecturer Ap. Mech.)

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- CHAUDHARY PRITEE 2nd Sem

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# Inside The Issue

- Republic Day Celebration [>> Page 4](#)
- Expert Lecture on Building Services [>> Page 4](#)
- Oath taking ceremony [>> Page 5](#)
- Sports week 2025 [>> Page 6](#)
- Admission awareness program [>> Page 7](#)
- Total Station training [>> Page 7](#)
- INFRA NEWS : Gujarat's Anganwadi Construction Project: Focus on Construction Aspects [>> Page 8](#)
- INFRA ARTICLE : Sudarshan Setu: A Marvel of Engineering and Architecture [>> Page 9](#)
- Out Star Students [>> Page 10](#)
- Faculty Achievements [>> Page 10](#)

# Republic Day Celebration

At Government Polytechnic Palanpur, On 26th January 2025 the occasion of 76th Republic Day, a flag hoisting program was arranged in which all the officials, employees and students of the institute enthusiastically participated.



## Expert Lecture on Building Services

Basics of Electrical Services

Date: 6 February 2025

Semester: 6

Participants: 28 Students

An expert lecture on Basics of Electrical Services was delivered by Prof. Ashfaq M. Qureshi, Lecturer in Electrical Engineering, Government Polytechnic Palanpur. The session focused on fundamental electrical systems relevant to civil engineering, safety aspects, and coordination between civil and electrical services in buildings. The lecture enriched students' interdisciplinary understanding and practical awareness.



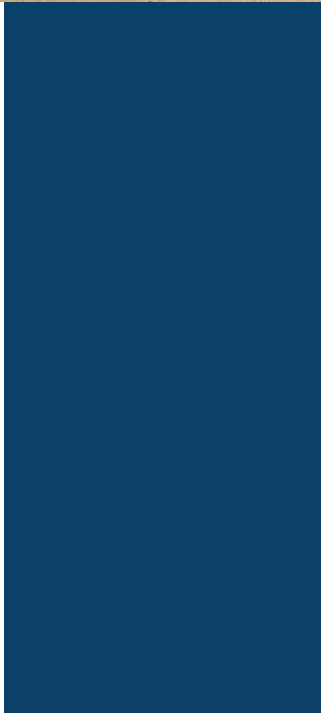
# Oath taking ceremony

An Oath Taking Ceremony was organized to promote awareness on No Tobacco, Ek Bharat, Shreshtha Bharat, and Say No to Drugs. Students pledged to follow healthy habits, avoid addictions, respect national unity, and contribute positively towards a responsible and united society.



# Sports week 2025

Sports Week was organized in February 2025 to promote physical fitness, teamwork, and sportsmanship among students. Various indoor and outdoor games were conducted with active participation. The event encouraged a healthy lifestyle, discipline, and unity, making it enjoyable and motivating for all participants.



# Admission awareness program

A Diploma Admission Awareness Program was conducted on 17 february 2025 to inform students about diploma courses, eligibility, and career opportunities. The session guided students on admission procedures and encouraged them to pursue technical education for better future prospects.



# Total Station training

A Total Station training program was conducted on 11-04-2025 to provide practical knowledge of modern surveying techniques. Students learned instrument handling, measurement procedures, and basic field applications, enhancing their practical skills and technical understanding.



## Mumbai-Ahmedabad High-Speed Rail (MAHSR) project

India's flagship Mumbai-Ahmedabad High-Speed Rail (MAHSR) project is rapidly taking shape, with construction now in full swing across both Gujarat and Maharashtra. The project is set to revolutionize travel between the two major economic hubs. 🚄

### Construction Milestones

In Gujarat, progress is visibly advanced. Over 315 kilometers of the elevated viaduct are now in place, and work on all eight high-speed stations is nearing completion. The construction of complex river bridges, a critical part of the alignment, is also progressing ahead of schedule.

Meanwhile, in Maharashtra, construction has gained crucial momentum after earlier delays. Work is now focused on the challenging 21-kilometer tunnel, which includes India's first 7-kilometer undersea rail tunnel at Thane Creek. Excavation for the underground station at Bandra-Kurla Complex (BKC) is also advancing well.

### Timeline and Impact

The National High Speed Rail Corporation Limited (NHSRCL) is targeting a trial run on the 50 km Surat-Bilimora stretch in Gujarat by 2026. The entire 508 km corridor is slated to be fully operational by 2029.

Once complete, the bullet train, using Japan's renowned Shinkansen technology, will cut the travel time between Mumbai and Ahmedabad from over six hours to just around two hours.



# A Symbol of Modern India: The New Parliament Building

• RAVAL JAIMIND  
(Sem 6 Diploma Civil Engineering)

## INFRA ARTICLE



### Key Technical Details

- **Structural System:** It is a Reinforced Cement Concrete (RCC) framed structure. Its unique triangular shape provides significant rigidity and allows for efficient space planning.
- **Seismic Design:** Although located in Seismic Zone-IV, the building is engineered to withstand Zone-V earthquakes, the highest level of seismic activity in India. This is achieved through the use of shear walls and ductile detailing of structural members.
- **Large Span Roofs:** The Lok Sabha and Rajya Sabha chambers are vast, column-free spaces. This was made possible by a complex steel truss system for the roof, which transfers heavy loads to the main RCC frame.
- **High-Performance Materials:**
  - **Concrete:** High-strength concrete grades (M40 and above).
  - **Steel:** Ductile, high-strength reinforcement bars (Fe 500D) to absorb seismic energy.
  - **Facade:** Red and white Dholpur sandstone, anchored to the main structure.
- **Foundation:** The building stands on a robust raft foundation to ensure stability and uniform load distribution on the soil.
- **Sustainability & Longevity:** Designed for a lifespan of over 150 years, the building has a GRIHA-5 Star green rating, incorporating features like rainwater harvesting and energy-efficient systems.

# ★ Out Star Students

Semester	Name of Student	Enrollment No	SPI
5	KADIWALA AEJAZALI IMTIYAZALI	226260306034	8.85
3	GOSWAMI PRINCEGIRI BHARATGIRI	236260306029	9.80
1	CHAUDHARY HITARTH DHANRAJBHAI	246260306023	8.05



## Faculty Achievements

Sr No	Name of Faculty	Achievement
1	H P Patel, F.A.Mukhi, N.V.Prajapati	Completed 8 Week MOOC on Interior Design at SWAYAM NPTEL
2	F.A.Mukhi	Completed 8 Week MOOC on Enhancing soft skill and Personality at SWAYAM NPTEL
3	A.R.Patel	Completed 8 Week MOOC on Training and developemty at SWAYAM NPTEL