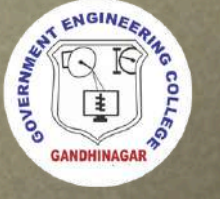


# कृतित्व

ISSUE IV



"अर्धवार्षिक लेखा-जोखा"  
सिविल अभियांत्रिकी विभाग

**Dr. N.K. Arora****H.O.D., Civil Engineering Department**

Dear Students and faculty members,

It is with great pride and satisfaction that I extend my warm greetings to all readers of this edition of the Civil Engineering Department newsletter. This platform continues to reflect the vibrant academic and extracurricular life of our department, highlighting the commitment, creativity, and resilience of our students and faculty.

We have also strengthened our industry collaborations, ensuring our students gain exposure to real-world challenges through site visits, expert talks and Innovation centres. Our curriculum continues to evolve, integrating modern tools like Autocad, GIS, and AI applications in civil engineering, preparing our students for the future of infrastructure development.

As we look ahead, our focus remains steadfast: nurturing skilled engineers with a strong ethical foundation, a passion for learning, and a commitment to nation-building. I encourage all our students to take initiative, stay curious, and keep exploring new frontiers in civil engineering.

I extend my heartfelt thanks to the editorial team for their hard work in compiling this newsletter, and to all contributors who made this issue possible.

Warmest regards,  
Prof. (Dr.) N.K.Arora

# INDEX

**The Institute**

**Faculty Details**

**Departmental Activities**

**Faculty Achievements**

**Faculty Training**

**Student Achievements**

**Creative Corner**

# THE INSTITUTE



## Vision

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and the environment.

## Mission

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.

# FACULTY DETAILS

## Civil Engineering Department



**Dr. Shweta P. Dave** (Principal)  
Ph.D. (Soil Mechanics)  
30 Years



**Dr. N.K. Arora** (HOD)  
Ph.D. (Structural Engineering)  
30 Years



**Dr. Ujas Pandya** (Asst. prof.)  
Ph.D. (Civil)  
16 Years

**Prof. Harshal Tuvar** (Asst. prof.)  
M.E.(Geotechnical Engineering)  
12 Years



**Prof. Shilpa Parmar** (Asst. prof.)  
M.E. (Water Resources Engineering)  
15 Years





# DEPARTMENTAL ACTIVITIES

## • Mundra Visit

The Civil Engineering Department of GEC Gandhinagar organized a two-day industrial visit to Mundra Port under the project “**UDAAN**” on February 5 and 6, 2025, for 56 students from the 4th and 6th semesters, accompanied by faculty coordinators Prof. Shilpa Parmar and Prof. Pradeep Patel. The visit provided students with firsthand exposure to large-scale industrial operations and key infrastructure in a real-world setting. On the first day, students explored Mundra Port—one of India’s largest private ports—where they observed coastal engineering techniques, logistics operations, cargo and container handling systems, and port infrastructure. The itinerary also included a visit to Adani Wilmar Ltd., a major edible oil production and packaging facility, where students gained insights into structural design, utility planning, industrial layout, and sustainable construction practices. This visit served as a vital link between academic learning and practical industry experience, broadening students' understanding of infrastructure development and industrial engineering applications.





## • Teachnical visit at IIC Center ,PDEU Gandhinagar

On February 19, 2025, the Civil Engineering Department of GEC Gandhinagar organized a visit to the Innovation and Incubation Centre (IIC) at Pandit Deendayal Energy University (PDEU) for 50 students, under the guidance of Prof. Shilpa Parmar. The visit offered valuable insights into innovation and entrepreneurship skill development, highlighting how the center serves as a platform to nurture entrepreneurial ventures. Students explored a curriculum that skillfully integrates theoretical knowledge with practical experience, particularly in product, industrial, and system design—with a strong focus on energy efficiency and sustainability. During the tour of various workshops, the rapid prototyping lab, equipped with advanced 3D printers, stood out as a key resource for hands-on learning. The faculty demonstrated deep awareness of current industry trends and a strong commitment to promoting innovation. Overall, PDEU's IIC center, backed by cutting-edge infrastructure and experienced mentors, presents exciting opportunities for merging engineering with design thinking and offers meaningful potential for future collaboration in innovation and entrepreneurship.





## • Sports day celebration

The Civil Engineering Department of GEC Gandhinagar successfully organized Sports Day on Thursday, 20th February 2025. This eagerly anticipated event saw enthusiastic participation from the department's students, creating a dynamic and spirited atmosphere. The day was meticulously planned with a diverse array of both traditional and modern sports, including the energetic Brick Race, the collaborative Three Leg Race, Kho-Kho, Kabaddi, and Gully Cricket, alongside the unique Satoliyu and an intriguing Surprise Game. This well-rounded selection of activities promoted physical activity, teamwork, and a healthy competitive spirit among the students, while also serving as a significant occasion for them to step away from academic routines and build stronger bonds with peers and faculty, contributing positively to departmental camaraderie.





## • Technical visit at Sardar Sarovar dam, SOU & GERI Vadodara

कृतित्व

On March 6-7, 2025, 56 students from the 4th and 6th semesters of GEC Gandhinagar visited the Sardar Sarovar Dam, GERI Vadodara, and the Statue of Unity in Kevadia, Gujarat. This educational trip was organized by the Civil Engineering Department under the guidance of Professors Shilpa Parmar and Pradeep Patel. During the visit, students explored the dam site where power generation is actively running and toured the riverbed powerhouse to understand how hydro energy is harnessed to produce electricity. They also studied the Garudeshwar weir, a significant hydraulic structure, and learned about its importance. At the Statue of Unity, they admired the 182-meter tall monument of Sardar Vallabhbhai Patel, along with panoramic views of the Narmada River and surrounding hills. From the gallery, they observed the impressive engineering marvel of the Sardar Sarovar Dam. On the second day, students visited the Jungle Safari bird refuge, combining wildlife observation with environmental education. The trip also included a visit to the GERI campus, renowned for its hydraulic structure models. Overall, the two-day excursion was both informative and inspiring for the students.





## • Kotarpur Water Treatment Plant

On April 3rd, 2025, the Civil Engineering Department organized a technical visit to the Kotarpur Water Treatment Plant for sixth-semester students as part of their Environmental Engineering curriculum, with faculty coordinators Prof. Ujas Pandya and Prof. Shilpa Parmar. This important facility, located just outside Ahmedabad, plays a key role in providing safe and potable water to a large segment of the city's population. The main objective of the visit was to gain an in-depth understanding of the complex water purification processes, from the intake of raw water to its final distribution. The experience was highly insightful, giving students a close-up view of the advanced engineering and careful procedures involved in ensuring the quality of their daily water supply.





## • Environmental Engineering practicals at LDCE Ahmedabad

On April 4, 2025, sixth-semester civil engineering students from GEC Gandhinagar conducted a practical session on environmental engineering at the Environmental Engineering department of LDCE Ahmedabad. Under the guidance of Pro. Shilpa Parmar and the faculty of the EE department, the students performed key environmental experiments, including measuring pH, turbidity, and hardness; testing chemical and biochemical oxygen demand; and analyzing dissolved oxygen, total solids, and suspended particles. This hands-on experience significantly enhanced the students' understanding of water quality assessment and environmental monitoring, which are vital aspects of sustainable civil engineering. The department extends its sincere thanks to the Environmental Engineering department at LDCE for their faculty support, guidance, and provision of laboratory facilities, all of which greatly benefited the students both technically and practically.





- **VGEC Surveying practicals**

On April 5th and 6th, 2025, fourth-semester civil engineering students participated in various practical sessions related to their surveying course at Vishwakarma Government Engineering College (VGEC), guided by Prof. Shilpa Parmar. The expertise of VGEC's experienced faculty and the use of their advanced surveying labs and field equipment greatly benefited the students. Under close supervision, the students developed hands-on skills in key surveying techniques such as contour surveying, where they mapped ground elevations; tacheometry, which involved rapid measurement of distances and heights using specialized instruments; and plane table surveying, a graphical method for directly plotting features in the field, among others. This collaborative experience not only strengthened their theoretical knowledge but also equipped them with valuable practical skills, greatly improving their understanding of surveying concepts and their applications in civil engineering.





- **World Earth Day**

On April 22<sup>nd</sup> 2025, Civil Engineering department of GEC Gandhinagar, college celebrated World Earth Day with an enthusiastic and comprehensive program centered on "Our Power, Our Planet." This year's event was notable for its hands-on approach, moving beyond awareness to actively involve students in tangible environmental care initiatives. Under the guidance of Prof. Ujas Pandya, Civil Engineering Students diligently set up and refilled water and shelter for birds across the campus, demonstrating a direct commitment to local wildlife. They also carefully watered existing plants and trees, ensuring the health of the campus greenery. These practical actions, alongside pledges for eco-friendly habits, and a campus clean-up, fostered a deeper appreciation for environmental stewardship, inspiring a generation committed to nurturing the natural world.





### • Staadpro Expert Lecture

On April 24, 2025, Professor B.J. Panchal, faculty of Applied Mechanics department delivered an impactful and hands-on training session on STAAD Pro. for Civil Engineering students. He offered a detailed overview of the software's interface and expertly guided students through the key steps involved in modeling various structural components. The session addressed important topics such as defining material and section properties, applying different types of loads, and conducting structural analysis. Professor Panchal also effectively explained how to interpret the analysis outcomes and create detailed reports. His dynamic teaching approach, which blended theoretical concepts with practical examples, greatly improved students' comprehension and confidence in using STAAD Pro for practical structural engineering tasks.



### • Prof. Dr.Ujas Pandya farewell function

On April 24, 2025, the Civil Engineering Department organized a farewell for Ujas Ma'am in recognition of her promotion to Associate Professor (Class 1) and her transfer to Vishwakarma Government Engineering College. We extend our heartfelt thanks for her dedication and the significant contributions she has made to the Civil Engineering Department at GEC Gandhinagar. Her expertise and leadership have been truly impactful. We wish her continued success and fulfillment in this new chapter of her career.





# FESTIVE CORNER

## • Days Celebration

From February 17 to 20, 2025, our college hosted a lively and cheerful series of themed events, including Traditional Day, Mismatch Day, Bollywood Day, and Group Day. Students across all departments enthusiastically took part, dressing according to each theme, capturing memorable group photos, and enjoying the celebrations to the fullest. The campus buzzed with joy, unity, and excitement, making these days a truly memorable and cherished experience for all.





## • Holi Celebration

On March 13, 2025, Government Engineering College, Sector-28, Gandhinagar, came alive with color and celebration as students and faculty gathered to joyfully observe Holi on campus. The air was filled with laughter and cheerful cries of "Happy Holi!" as participants safely used organic colors to playfully apply gulal on one another. Faculty members warmly joined in the festivities, strengthening the bond between students and staff. The well-organized event created a lively and memorable celebration, beautifully blending festive cheer with a strong sense of community and togetherness.





# FACULTY ACHIEVEMENTS

Prof. Dr. Ujas Pandya and Prof. Shilpa Parmar attended a certified course on "Rural Water Resources Management" under NPTEL MOOC Training course during January to April 2025.



**Elite**

**NPTEL ONLINE CERTIFICATION**

(Funded by the MoE, Govt. of India)





This certificate is awarded to

**DR UJAS PANDYA**

for successfully completing the course

**Rural Water Resources Management**

with a consolidated score of **90 %**

Online Assignments	25/25	Proctored Exam	64.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **737**



**Jan-Apr 2025**

(12 week course)



**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL25GE31S1245400209

To verify the certificate



No. of credits recommended: 3 or 4



**Elite**

**NPTEL ONLINE CERTIFICATION**

(Funded by the MoE, Govt. of India)





This certificate is awarded to

**SHILPA CHANDUBHAI PARMAR**

for successfully completing the course

**Rural Water Resources Management**

with a consolidated score of **84 %**

Online Assignments	24.06/25	Proctored Exam	60/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **737**



**Jan-Apr 2025**

(12 week course)



**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL25GE31S1145400044

To verify the certificate



No. of credits recommended: 3 or 4

# STUDENT ACHIEVEMENTS

Our 6<sup>th</sup> Semester Civil Engineering students Parikh Riya, Gameti Parshav, Divyesh Gopat, Rajdeep Zala, Tirth Vadodariya had participated in “ autocad” course under componenet 12 vocalization of Higher Education, RUSA, Gujarat State during 27<sup>th</sup> January to 8<sup>th</sup> February 2025.





# STUDENT ACHIEVEMENTS

Our 6<sup>th</sup> semester civil engineering student, Het Joshi, placed second in the Ahmedabad Municipal Corporation's 2025 Swimmimng competition, which featured a 100-meter and 50-meter backstroke.



# Newly joined faculty member details

**Prof. B.J. Panchal**  
M.E. (Structural Engineering)  
35 Years

(Asso.Professor)



**Prof.(Dr). Toral H Vyas** (Asso.Professor)  
Ph.D (Civil)  
16 Years



**Prof.(Dr.) Sandip C Rathod** (Asso.Professor)  
Ph.D (Civil)  
21 Years



**Prof.(Dr. ) C.N. Patel** (Asso.Professor)  
Ph.D (Civil)  
17 Years

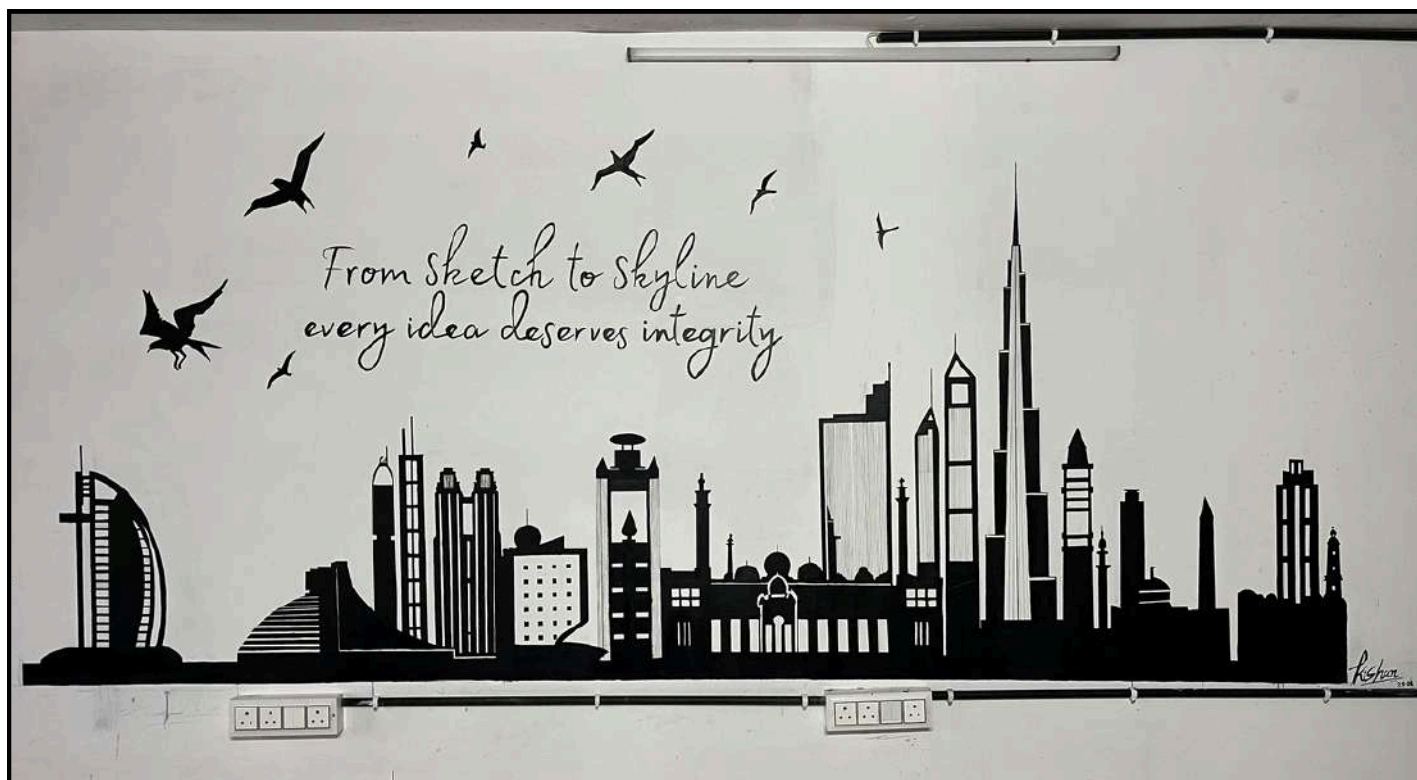


**Prof.(Dr.) G.M. Savaliya** (Asso.Professor)  
Ph.D. (Civil)  
16 Years



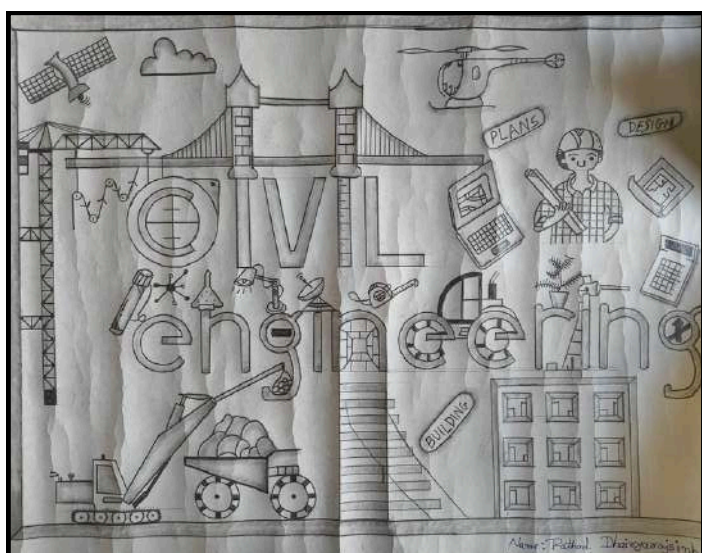


# CREATIVE CORNER



**Kishan Dhanani**  
Wall painting

**SEM 6**



**Dhairyaraj Rajput**  
Art

**SEM 4**



**Parshv Gameti**  
Art

**SEM 6**

## **EDITORIAL TEAM**

**Dr. Sweta P. Dave**

(Chair Person)

**Dr. N.K. Arora**

(HOD - Civil Engineering Department)

**Prof. Shilpa Parmar**

(Coordinator)

**Prabhakar Jha (Student- 6<sup>th</sup> Semester)**

(Team Lead)

**Kishan Dhanani (Student- 6<sup>th</sup> Semester)**

(Design)

**Rajal Desai , Riya Parikh & Poorva Patel (Students - 6<sup>th</sup> Semester)**

(Content writer)

**Gayatri Jaiswal , Rupal Shakya & Dhairya Rathod ( Students - 4<sup>th</sup> Semester)**

(Content Writer)