

## **Parul University**

### **Student Led Society Engaged with Sustainability A.Y. 2024-25**

The student led society engaged with sustainability at Parul University during the academic year 2024-25 exemplifies a proactive and holistic approach toward environmental responsibility, social engagement, and experiential learning. Driven by enthusiastic student participation and supported by faculty guidance, various student clubs and societies collaboratively contributed to fostering a culture of sustainability across the campus.

A wide range of clubs, including the Indian Water Works Association (IWWA), ISHRAE, Coding Club, Electro Club, and others, actively organized academic, technical, and community-based activities. While technical clubs enhanced students' professional competencies through workshops, competitions, and expert sessions, the sustainability-focused initiatives emphasized real-world environmental challenges and solutions.

One of the key highlights of the initiative was the organization of multiple exposure visits to Solid Waste Management (SWM) sites and Sewage Treatment Plants (STP). These visits enabled students to gain practical insights into waste segregation, recycling processes, wastewater treatment stages, and water reuse practices. By bridging theoretical knowledge with field experience, the initiative significantly strengthened students' understanding of environmental systems and sustainable practices.

In addition, large-scale cleanliness drives under campaigns like the Swachh Bharat Abhiyan promoted hygiene, sanitation, and community awareness. Activities such as e-waste collection drives, conducted in collaboration with authorized recyclers, encouraged responsible disposal and recycling of electronic waste, thereby supporting the circular economy.

Furthermore, tree plantation drives, awareness programs, and community outreach activities were conducted in collaboration with bodies like the Social Responsive Cell (SRC) and Unnat Bharat Abhiyan (UBA). These initiatives not only contributed to environmental conservation but also instilled a sense of social responsibility among students.

Overall, the student-led sustainability initiatives at Parul University served as a dynamic platform for nurturing environmentally conscious individuals, promoting interdisciplinary learning, and empowering students to become responsible global citizens committed to sustainable development.

#### **Student Clubs:**

- Indian Water Works Association (IWWA) Club
- Atrangi Club
- Women in Big Data (WiBD) Club
- UDAAN Club
- Indian Geotechnical Society Club
- Coding Club
- The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Club
- Electro Club

## Activities Conducted Under Various Clubs

### Atrangi Club

Atrangi 2.0, organized by the IT Department, was a vibrant cultural programme, dedicated to bidding a memorable farewell to final-year students. The event served as a dynamic platform for students to showcase their talents while fostering a sense of unity, creativity, and celebration within the department. The programme reflected enthusiasm, teamwork, and cultural diversity, the event commenced with a traditional lamp-lighting ceremony in the presence of esteemed dignitaries, followed by an inspiring address that motivated students to balance academic excellence with active participation in co-curricular activities. Atrangi 2.0 was not just a farewell event but a celebration of memories, friendships, and achievements.

A wide array of performances, including classical, fusion, solo, and group dances, musical renditions, and a lively fashion show, captivated the audience. The highlight of the event was an engaging drama that nostalgically depicted college life and friendships, resonating deeply with the audience. These performances beautifully reflected the theme of togetherness, emotions, and cultural expression.

The programme also included felicitation of academic achievers and active contributors, acknowledging their dedication and accomplishments. The event concluded on a joyful note with a traditional Garba, symbolizing unity and celebration.



### Coding Club

The Computer Science and Engineering Department organized “Advanced Machine Learning” activity under coding club. The program was conducted over a duration of three months under the guidance of expert trainers Mr. Srinivas, Mr. Srikanth, and Mr. Aadharsh Tiwari, along with faculty coordinators Prof. Gaurav Varshney and Prof. Rishabh Aathiya.

The primary objective of the activity was to provide students with in-depth knowledge of machine learning concepts, ranging from basic to advanced levels. The sessions focused on strengthening Python programming skills, understanding advanced machine learning algorithms, and applying these concepts to real-time projects. Students were also trained in data preprocessing techniques, including data cleaning, standardization, and dataset handling, enabling them to build efficient and optimized models.

The course emphasized practical learning through assignments, assessments, and hands-on project work, helping students gain clarity and confidence in solving real-world problems. Additionally, guidance was provided on preparing for technical interviews and competitive coding assessments. As an outcome, students developed strong foundational and advanced skills in machine learning and gained practical exposure to project implementation. This initiative significantly enhanced their technical competency, problem-solving abilities, and employability for both on-campus and off-campus opportunities.



The students of Computer Science and Engineering Department organized a one-day workshop titled “Effective Usage of Cloud Services” under the Coding Club.

The primary objective of the activity was to familiarize participants with cloud computing concepts and to enhance their understanding of the effective usage of cloud tools and services. The workshop aimed to highlight the importance of cloud technologies in modern computing and their applications across various domains.

The session included detailed discussions on cloud fundamentals, different types of cloud services, and their practical applications. Participants were introduced to various cloud-based tools and platforms, enabling them to understand how cloud services can be utilized efficiently for project development and data management. The interactive nature of the workshop encouraged active participation and clarified student’s queries.

The activity provided hands-on exposure and real-world insights into cloud computing, helping participants strengthen their technical knowledge and practical skills. As an outcome, participants gained confidence in using cloud services and developed a better understanding of their role in the IT industry, thereby enhancing their readiness for future academic and professional opportunities.



## Electro Club

The Electronics and Communication Engineering Department organized an engaging “Electro-War Competition” under the Electro Club. The primary objective of the event was to enhance students’ practical knowledge of circuit design and implementation. The competition aimed to prepare students for real-world circuit-making challenges by strengthening their understanding of electronic components, circuit diagrams, and hardware assembly techniques.

During the activity, students were divided into groups and provided with a set of electronic components along with a circuit diagram. Within the given time frame, each group was required to identify the necessary components and construct the circuit on a PCB or breadboard. Upon completion, participants demonstrated the output of their circuits and faced a technical evaluation round conducted by expert juries, including Dr. Yadav and Dr. Mitul Patel.

The competition fostered teamwork, time management, and problem-solving skills among participants. It also encouraged innovation and hands-on learning. The best-performing teams were awarded first, second, and third positions based on their performance.



## The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Club

The Mechanical Engineering Department organized the “Installation Ceremony of ISHRAE Student Chapter along with an Expert Session on Basics of HVAC Selections”. The event was conducted under the ISHRAE Club with participation from 133 students across 3rd, 5th, and 7th semesters, coordinated by Prof. Swati Prajapati.

The primary objective of the activity was to foster awareness and interest among students in the field of Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC&R), while also providing a platform for professional networking and knowledge sharing. The event began with a welcome address and introduction to ISHRAE, followed by the formal installation of the student chapter by Mr. Jigar Bhalavat, Past President of ISHRAE Vadodara Chapter.

A keynote expert session was delivered by Ms. Sneha Patel, Proprietor of SHAMS TECH, on the topic “Basics of HVAC Selections.” The session highlighted important aspects such as system performance, energy efficiency, cost considerations, and environmental impact in HVAC system design. An interactive question-and-answer session further enhanced student engagement.

The activity successfully provided students with valuable into HVAC applications and career opportunities. It also encouraged a holistic understanding of system selection and strengthened their technical knowledge, preparing them for future challenges in the HVAC industry.



### **Student-Led Sustainability Society Initiative: Visits to Solid Waste Management & Sewage Treatment Plant (STP) Sites**

Under the active leadership of the student-led sustainability society at Parul University, a series of sustainability-oriented exposure visits were organized during the academic year 2024–25. With a core objective to promote environmental consciousness and experiential learning, the society successfully coordinated 31 visits to the Solid Waste Management (SWM) site and Sewage Treatment Plant (STP), engaging both students and faculty members across diverse disciplines.

The initiative was driven by students committed to fostering a culture of sustainability on campus. Participants from environmental science, engineering, pharmacy, management, and other interdisciplinary streams actively took part, reflecting the inclusive and collaborative spirit of the society. These visits aimed to bridge the gap between classroom learning and real-world environmental practices, empowering students to become responsible change-makers.

At the Solid Waste Management site, the student coordinators facilitated learning on key practices such as waste segregation, recycling, and resource recovery. Emphasis was placed on sustainable community practices and decentralized waste management systems. Similarly, at the STP facility, students explored the various stages of wastewater treatment primary, secondary, and tertiary while understanding the importance of water reuse, environmental protection, and regulatory standards.

The visits were enriched through interactive sessions, live demonstrations, and discussions, making the learning process engaging and impactful. The student-led approach encouraged active participation, critical thinking, and a sense of ownership towards sustainability initiatives.

Overall, this initiative by the student-led sustainability society significantly contributed to enhancing environmental awareness, practical knowledge, and sustainable thinking among students. It stands as a strong example of how student-driven efforts can effectively promote sustainability and experiential learning within the university ecosystem.





## Activities of Social Responsive Cell under the Sakshamthad Foundation

### Large-Scale Cleanliness and Conservation Drives:

Swachh Bharat Abhiyaan Campaigns: Multiple campaigns promoted waste management, hygiene, and the elimination of open defecation, directly contributing to a cleaner environment and reduced pollution.

"Swachh Bharat Abhiyan" (Clean India Mission) is a nationwide cleanliness campaign initiated by the Government of India to achieve the vision of a clean and open-defecation-free India. The objectives of creating awareness about Swachh Bharat Abhiyan are aimed at promoting cleanliness, hygiene, and sanitation practices. The key objectives were to promote cleanliness and hygiene, raise awareness about the importance of cleanliness and good hygiene practices to improve overall public health, eliminate open defecation, educate communities about the hazards of open defecation, and encourage the use of toilets and proper sanitation facilities.



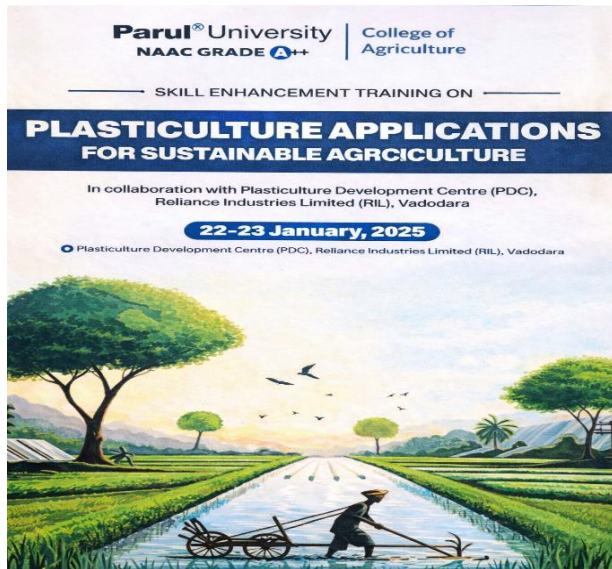
**E-Waste Collection Drive:** In collaboration with M/S Unicare E- Waste Recycler, this drive responsibly collected and recycled electronic waste, preventing toxic leakage into the environment and promoting a circular economy. Parul Institute of Engineering & Technology Diploma Studies, in a commendable effort to promote environmental sustainability, has organized an E-Waste Collection Drive in collaboration with M/S Unicare E-Waste Recycler. The drive, held on June 3rd and 4th, 2024, aimed to responsibly collect and dispose of electronic waste generated within the campus and the surrounding community. By partnering with the reputable e-waste recycler, M/S Unicare, the institute ensured that collected items were recycled in an environmentally-friendly manner.



A



Skill Enhancement Training on “**Plasticulture Applications for Sustainable Agriculture**” was conducted by the Department of Agricultural Engineering from 22/01/2025 to 23/01/2025 for second-semester students. The two-day program aimed to build awareness and skills in plasticulture technologies. A field visit to the Plasticulture Development Centre (PDC), Reliance Industries Ltd., Vadodara, provided hands-on exposure to drip and sprinkler irrigation, mulching, greenhouse cultivation, plastic lining, and soil solarization, enhancing students’ understanding of sustainable agricultural practices.



## **Student-Led Sustainability Society Initiative: Collaborative Environmental Action at Parul University**

The Student Led Sustainability Society Initiative at Parul University stands as a dynamic example of youth-driven environmental stewardship and community engagement. This initiative, carried out in collaboration with prominent student bodies along with Social Responsive Cell (SRC), Unnat Bharat Abhiyan (UBA), ISHRAE, IGBC, and IWWA, reflects a strong commitment towards sustainability, social responsibility, and experiential learning.

The initiative brought together students & faculty participants to actively contribute to environmental conservation through of impactful activities. One of the key highlights was the tree plantation drive, where students planted saplings within and beyond the campus, promoting biodiversity and reinforcing the importance of green cover. These activities not only enhanced the ecological balance but also instilled a sense of ownership and responsibility among students toward nature.

In addition to plantation drives, the initiative included awareness programs and demonstrations focusing on environmental protection, waste management, and sustainable practices. Students engaged with local communities, including school children, to spread awareness about the importance of maintaining a clean and healthy environment. Demonstrations such as fire safety awareness and environmental conservation practices added a practical dimension to learning, making the initiative both informative and impactful. ISHRAE contributed knowledge on energy efficiency and environmental sustainability, while IGBC emphasized green building practices and sustainable infrastructure. IWWA played a vital role in promoting water conservation and management awareness. Meanwhile, SRC and UBA ensured effective student mobilization and strengthened the connection between the university and the community.



