

SUSTAINABLE DEVELOPMENT GOALS

6. CLEAN WATER AND SANITATION



6.5 Water in the community

[Back to Main](#)

6.5 Water in the community

6.5.1 Water Management Educational Opportunites

Water Leakage Photo Fest

The Water Leakage Photo Fest is a competition aimed at raising awareness about water conservation in Chennai Institute of Technology -Local Community. Participants are invited to submit hard copies of photos that capture instances of water leakage or inefficient water use within the campus premises. The goal is to identify and highlight areas where water management improvements are needed and to foster a culture of responsibility towards water conservation.

Winning entries will be displayed in a special exhibition on campus. A certificate of recognition will be awarded to all top three winners. Winning photos will be used in future water conservation campaigns to illustrate the importance of addressing water leakage.






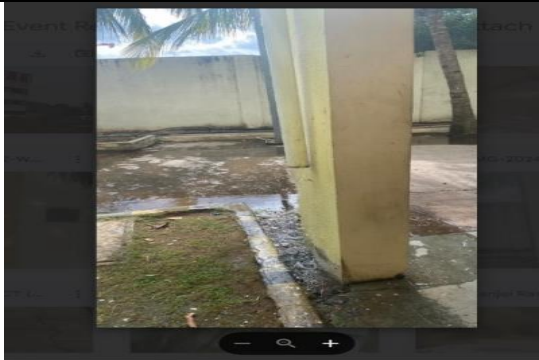
Event Schedule:

Launch Date : 31-08-2022

Announcement of Winners : 07-09-2022

Photos collected from water leakage photo fest



Behind academic block	Near hand wash area
 <p data-bbox="331 790 625 824">Hostel water purifier</p>	 <p data-bbox="1018 790 1152 824">Café sink</p>
 <p data-bbox="354 1283 603 1317">Hostel tank outlet</p>	 <p data-bbox="1002 1283 1168 1317">Boys hostel</p>

6.5.2 Water Conservation

Community Awareness in Somamangalam

A Rally was conducted in Somangalam Village to make the people aware of education on water management as it plays a crucial role in shaping educational opportunities, particularly in areas where water scarcity or poor water infrastructure can be a significant barrier to learning. By ensuring that schools have access to clean water and adequate sanitation, we create healthier, more equitable, and more sustainable learning environments. Additionally, integrating water management into curriculum and encouraging water conservation efforts can equip students with valuable knowledge and skills that contribute to a more water-conscious society.



Tree saplings were given to the people at Somangalam village on 16-09-2022

In Somangalam Village, a tree planting campaign was held to raise awareness of the importance of water management education and how it shapes educational opportunities, especially in places where inadequate water infrastructure or water scarcity can be major learning obstacles. We establish more sustainable, egalitarian, and healthy learning environments in schools by guaranteeing that they have access to clean water and proper sanitation. Furthermore, incorporating water management into the curriculum and supporting conservation initiatives can give students important knowledge and abilities that help create a society that is more water-conscious. Following the rally, the neighborhood received tree seedlings on December of 2022.



A tree planting campaign at Somangalam village on 20-12-2022

Community Awareness in Puthuper on 11.02.2023

A Rally titled “A MARCH FOR MINDS AND WATER”, Over 50 students and faculty members took part in the rally, showing solidarity towards the cause. The participants carried banners and slogans emphasizing the importance of Water conservation and preservation. The rally began from CIT and proceeded to Puthuper Village attracting attention and sparking conversations about the importance of water management and literacy towards it.



Thirunageswaram Rafting pond – Cleaning

The Chennai Institute of Technology, in collaboration with the National Service Scheme (NSS), organized a Rafting Pond Cleaning event on 3rd February 2023. A total of 35 students actively participated in the initiative, contributing to the cleaning and maintenance of the rafting pond. This event not only helped in improving the water quality and surrounding environment but also promoted a sense of responsibility and community service among the students.

Rally for Community Service

On February 18, 2023, the National Service Scheme (NSS) unit of Chennai Institute of Technology organized a significant rally named "Country is Our Home" in the picturesque Poonthandalam village. This event was part of NSS's ongoing efforts to foster a sense of national pride and community engagement among students and residents.

The rally was designed to instill a deeper sense of belonging and responsibility towards our country. With a focus on highlighting the importance of community service, national unity, and environmental consciousness, the event aimed to inspire participants to take an active role in societal betterment.

The day began with a gathering at the institute where 45 dedicated volunteers assembled at 3.00pm on that day. These volunteers, comprising both students and NSS members, were briefed about the day's activities and the objectives of the rally. After a motivational speech emphasizing the values of patriotism and civic duty, the group departed for Poonthandalam village. Upon arriving in Poonthandalam, the volunteers were met with a warm reception from the local residents. The village, known for its close-knit community, provided a welcoming atmosphere that further energized the participants. The rally kicked off with a parade through the village streets, during which volunteers carried banners and placards bearing messages of unity, pride, and the importance of community involvement. The parade was marked by enthusiastic chants and slogans, which resonated with the local populace and created a lively, engaging atmosphere. At the end of the event, motivational speech given by the Anna University Vice chancellor.

River Side Cleaning for Water Conservation

The National Service Scheme volunteers of Chennai Institute of Technology conducted a "World Water Day 2023" - a Mass Cleaning Campaign in river side and chembambakkam lake on 22nd March 2023. The activities for the day started with the volunteers leaving to the College, to clean the River side in Adayar river near Tambaram and chembambakkam lake. 50 Volunteers played their part in restoring the area to its original glory by engaging themselves from 9 am to 5pm in all the activities of the day with great enthusiasm and helped to restore nature. The programme was organized by the program officer Mr. Yakkana Rajasankar along with NSS volunteers.



River Side Cleaning – Adayar River



Chembarambakkam Lake – Cleaning



Removal Prosopis Juliflora



Removal Prosopis Juliflora



Thirunageswaram Rafting pond – Cleaning

Removal Prosopis Juliflora

The Karuvelam tree, or prosopis juliflora as it's known biologically, is a species native to West Africa and was brought to Tamil Nadu in 1960s as fuelwood. Slowly, these seeds started drifting into dams and rivers, causing problems. The plant according to multiple reports, absorbs excess groundwater, adding to the woes of the water-starved state. The NSS unit of CIT associated with Lions club, Chennai conducted by unwanted tree-cutting program in 19th July 2022. It afforests the wastelands. These trees are cut by the NSS volunteers of CIT near by the waste lands in Periyar nagar village (nearby CIT) to preserve the environment. Totally 58 members are participated in this event.

6.5.3 Sustainable Water Extraction

Sustainable water extraction on campus

The organization has a long-term goal regarding the sustainable use of water resources. There is a thorough plan in place for collecting rainwater and replenishing groundwater supplies.

6.5.4 Cooperation On Water Security

Chennai Institute of Technology provides educational opportunities for local communities to learn about good water management. The Institute adopts various methodologies to educate the local community. The webinars, workshops etc are arranged for the various groups of people in the community who are interested in water management and are looking for opportunities for water conservation. During the webinars, experts in the field will be invited to deliver the lecture on water management and water conservation practices. Lakes are increasingly impacted by the accumulation of water hyacinths and plastic waste on the surface, complicating cleanup efforts. Traditional water surface cleaning methods are often inefficient, labour-intensive, and unable to effectively reach and clean challenging areas. **Eco-Society India** is a non-profit organization based in Chennai, focused on environmental conservation and urban ecosystem protection. It aims to educate and train communities to protect and restore natural resources. The organization is actively involved in the following five key thematic areas:

1. **Eco-restoration of Lakes:** Focused on restoring urban lakes to improve water quality, biodiversity, and sustainability.
2. **Eco-restoration of Tropical Dry Evergreen Forest (TDEF):** Working to restore and conserve this unique and biodiverse ecosystem in southern India.
3. **Eco-restoration of Kovalam Mangroves:** Protecting and restoring mangrove ecosystems, which are crucial for coastal protection and biodiversity.
4. **Afforestation & Eco-restoration of Degraded Landscapes:** Revitalizing deforested and degraded landscapes through afforestation and soil restoration efforts.
5. **Mural Art & Awareness Wall Paintings:** Using art to raise environmental awareness and engage the public in conservation efforts.

Location: Eco-Society India, #52, Dhayakar Avenue, Kalaivanar Salai, Chitlapakkam, Chennai 600064, India.



Autonomous Lake Surface Cleaner: Reducing Waste Accumulation with 270° Coverage

Research Project Grant

Chennai Institute of Technology has been approved for a grant of the Tamil Nadu State Council for Science and Technology Research Project. The Grant has been titled 'Underground Water Quality Monitoring due to Pumping of Water by Tanker Using GIS and Wireless Sensor Network Technology' and budgeted on Rs.4,35,000. The project "Underground Water Quality Monitoring due to Pumping of Water by Tanker Using GIS and Wireless Sensor Network Technology" aims to monitor the impact of water extraction by tankers on underground water quality. It involves deploying wireless sensors to continuously measure water quality parameters such as pH, turbidity, and contaminants in real time. The data collected by these sensors is transmitted wirelessly to a central system, where it is analyzed and visualized using Geographic Information Systems (GIS). GIS helps map the sensor locations and assess how pumping activities affect water quality over a geographical area. This integrated system allows for early detection of any contamination or quality degradation, enabling more efficient water management and ensuring the sustainability of groundwater resources by providing real-time insights and spatial analysis.

6.5.5 Promoting Conscious Water Usage on Campus

The Institute has adopted various methodologies to educate the students and staff members in Conducting regular water audits to identify wastage points. Campus Buildings were Set up with effective rainwater harvesting. Greywater recycling system that can treat wastewater from sinks and showers for reuse in gardening or Flush toilets. Water-conscious tags are maintained at appropriate places inside the campus.



6.5.6 Promoting conscious water usage in the wider community

The institution participates in the national initiative *Unnat Bharat Abhiyan* to enhance basic amenities in rural areas, including infrastructure, sanitation, healthcare, and education. The college team met with the Village Administrative Officer and the Chairman of the village to discuss raising awareness about the need for water management and the importance of rainwater harvesting. The “Neerottam” Water Marathon, conducted annually, and the cleanup of the Chembarabakkam Lake ridges were initiated by NSS-CIT in collaboration with the Lions Club, Chennai, to encourage the community to remain engaged in water-conscious and sustainable activities..



Students participating marathon



Chembarambakkam Lake – Cleaning



**CHENNAI
INSTITUTE OF TECHNOLOGY**
(Autonomous)



Accredited by
NBA
CSE, ECE, EEE, MECH, MCT

nirf
175th Rank
(NIRF Ranking 2022)

Unnat Bharat Abhiyan

The imperatives of sustainable development which are being felt more and more acutely all over the world also demand eco-friendly development of the villages and creation of appropriate employment opportunities locally. Increasing urbanization is neither sustainable nor desirable. So far, our professional higher education institutions have largely been oriented to cater to the mainstream industrial sector and, barring a few exceptions, have hardly contributed directly to the development of the rural sector. Unnat Bhārat Abhiyān (UBA) is a much-needed and highly challenging initiative in this direction.

The institution carried out reach around the beach, water bodies and public places. This activity enhanced the promotion towards the village people of Kottivaakam, Sirukalathur (near sembarambakam lake) and Thirunageswaram(public place) for sanitation , hygiene and preventing contamination of water bodies.





Beach cleaning activity



Public place (Thirunaganeswaram village)

[url:https://www.citchennai.edu.in/campus-life/unnat-bharat-abhiyan/](https://www.citchennai.edu.in/campus-life/unnat-bharat-abhiyan/)

[Back to Main](#)