

ANNUAL REPORT 22-23



“Little efforts make huge differences”



ABOUT ENVIRONMENT CLUB, CED, SCET

Department of Civil Engineering, Sarvajanic College of Engineering & Technology has established 'Environment Club' with an objective to develop a holistic platform to foster technological solutions to environmental issues and raises awareness for the same. To encourage research culture and orient students towards the same, the club works in harmony with Research & Development Cell on various projects.

Conceived in 2018, the club has nurtured under the mentorship of Dr. Mehali J. Mehta. The club has ensured that it constantly maintains an upward trajectory towards creating environmental awareness footprints.

Vision:

The club remains committed to raise technological and social awareness on environmental conservation by vital contribution of the community and dynamic participation of the students.

Mission:

To inculcate an inclination towards research by harmonious integration of student teams across academic hierarchy through creative, critical and collaborative work. To ingrain responsible attitude towards natural resources and sensitize students towards the same. To stimulate action-based programme and render solutions to various environmental issues through technical endeavours. To develop and improvise performances of green materials and systems for sustainable infrastructures

To achieve the above stated goals, under the guidance of club mentor Dr. Mehali Mehta student coordinators Ms. Irienedeep Sood and Mr. Harsh Parekh along with the help of club members organised expert lectures and various activities. The main goal of these activities was to generate social awareness amongst the students of the institute and to improve technological knowledge in the field. Some of the activities had been continuously carried out throughout the year. The details of these activities are given in the next sections.

TEAM OUTLOOK

Irienedeep Sood's (Student Secretary): For years humans have been trashing the earth and using its resources for comfort. This has caused numerous problems for the environment such as rising sea levels, more extreme weather events, and the extinction of species. Due to increasing development activities, it has become extremely necessary to take steps in the right direction and to save the earth. Even the smallest of efforts in our daily habits can create magnitudes of effect. Our club is not only focussed on increasing technical and social awareness but also act on the knowledge gained to create a better tomorrow.

Harsh Parekh's (Student Secretary): Due to rising demands from manufacturing (+400%), thermal electricity generation (+140%), and home consumption (+130%), the world's water demand is expected to rise by about 55%. There won't be much room for boosting irrigation water use in the face of these competing needs. The developing and emerging economies will experience the largest increases in water consumption.

Dr Mehali Mehta's (Club Mentor): Our planet is critically facing the interconnected crises of rapid climate change, biodiversity loss, reduction in vegetation with an adverse impact on human health and environment. We have years, not decades to address these existential threats. I strongly believe that "Today's youth are the leaders of tomorrow". Inculcating and encouraging the youth and sensitizing and addressing environmental issues is need of an hour which can be channelized by formation environmental club. The club is nurtured with the commitment to develop a holistic platform to foster technological solutions to environmental issues and raise awareness for the same.

Dr. Jigar Sevalia's (Head, Civil): When we talk of Environment, we talk of Nature. There are many skills to learn from nature itself. Trees teach us about the growth mentality as well as resiliency. Water teaches us about to expand the knowledge horizontally & vertically. Earth teaches us about the resourcefulness as well as trustworthiness. These are some few examples. Likewise, we can explore a lot about the nature, about the environment to learn a lot many skills out of it. One of the purposes of Environment Club is to inculcate key characteristics in students as reflected by the nature to make them better human being. I wish entire team of Environment Club All The Very Best.

EXPERT LECTURE ON RAIN WATER HARVESTING

Along with ISTE (Indian society of technical education), Environment club of Civil engineering Department of SCET had brought an expert lecture on Rainwater Harvesting: Installation and Applications by Field Expert Mr. Ebrahim Mamsa, Proprietor of Furrat, Surat. He has installed more than 500 rainwater harvesting systems and has more than 15 years of experience in this field.

The expert began his lecture on Rainwater Harvesting by giving a brief introduction of the topic to the students who were unfamiliar with the system. He then gave an insight on the various works done by him in and around Surat City and explained how cases differ according to meteorological and topographical conditions of the areas. He also discussed special cases and explained the need of these systems in any infrastructure project. He then explained all the construction steps and installation process of rain water harvesting system. The filters used after the collection of rain water in the system was thoroughly explained. After the lecture, a Q & A session was held wherein the students as well as faculty members asked questions related to the systems used commercially. All the participants were able to get in-depth knowledge on the topic from this session. Various industry practices were also discussed during the lecture. Later on, a small scaled working model of the rainwater harvesting system along with its filtration process was presented to all the participants by the expert. The students could see the components inside the filter up close and get a detailed overview of its working.



Mr. Ebrahim Mamsa delivering speech



Explanation of working model

After the lecture, all the student members of the environment club presented a letter of appreciation to Mr. Ebrahim Mamsa for his exceptional lecture on the topic. The event ended with a vote of thanks by the student secretary.



Photos of expert lecture

ANIMALS

Animals and birds are an indispensable part of the natural environment and play a large role in maintaining healthy environment. Irreparable damage can be caused on entire ecosystem with the loss of mere one species. Being the most intelligent species on earth, it becomes the responsibility of humans to take care of the environment around it and save the animals and birds from facing extinction while helping them survive in the artificially created environment as well. As a step towards helping this cause, the members of environment club performed the below activities:

BIRD FEEDER HANGING

Birds are one of the primary pollinators, that help in plants to be dispersed to new places and to revitalize ecosystems that have been destroyed. Thus, hanging bird feeder not only helps provide a safe environment and easy access of food to birds but also helps in saving the ecosystem.

Members of the environment club gathered to create bird feeders from recycled bottles of oil and other materials. These bird feeders were hung on branches of trees all over the campus. The feeders are thereon filled regularly with water and healthy food for birds. The feeders help attract birds to the campus area thus improving the atmosphere of the campus and making it more nature friendly. It also helps in creating awareness among the students of the institute.



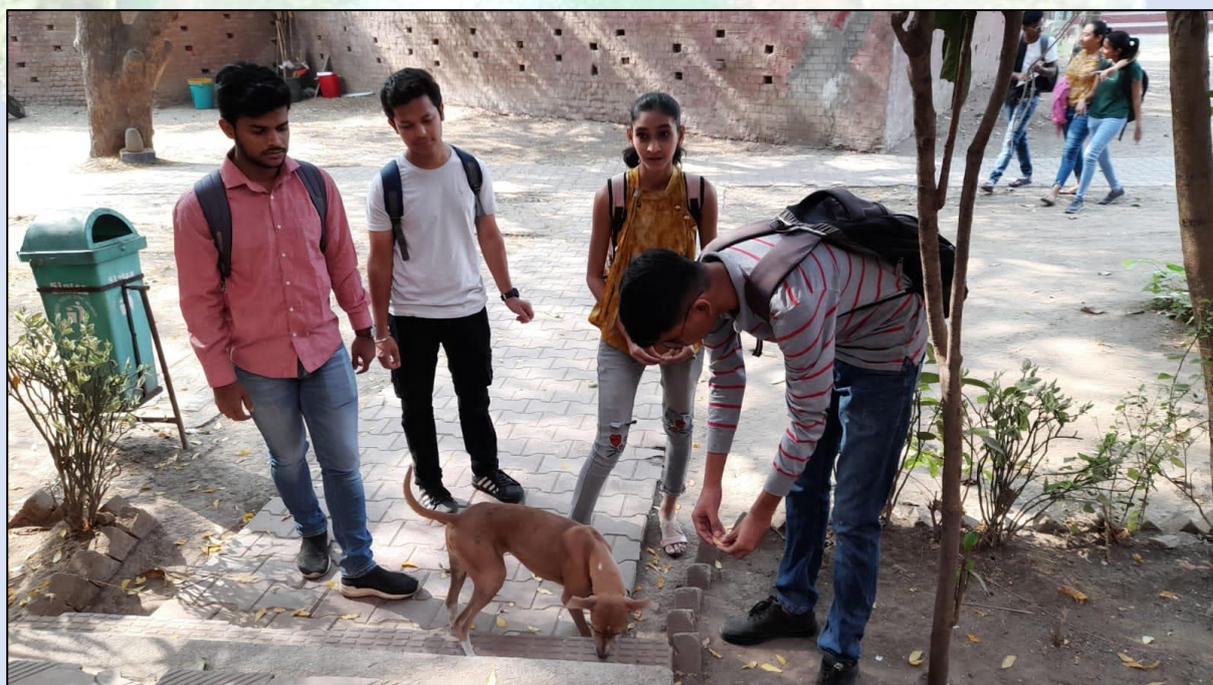
Making of bird feeders



Hanging and filling of bird feeders at various locations

ANIMAL FEEDING

Humans being the guardians of the animal kingdom have a social responsibility towards the stray animals. Feeding of stray dogs also helps in winning the dogs trust and thus helps in creating a friendly environment for humans as well thus reducing the risk of dog bites. Regular feeding of dogs in and around the campus of college and areas familiar to the members of the club was done throughout the year. It was also ensured that water was supplied to the dogs at all times in earthen pots.



Feeding dogs in and around campus

PLANTS

Tree and plant plantation is one of the most important and efficient way of improving the quality of environment around us. Some of the most evident benefits of growing plants are providing oxygen and filtering carbon dioxide to improve the quality of air, beautifying areas, prevention of soil erosion, reduction of noise pollution, reduction in surrounding temperature etc.

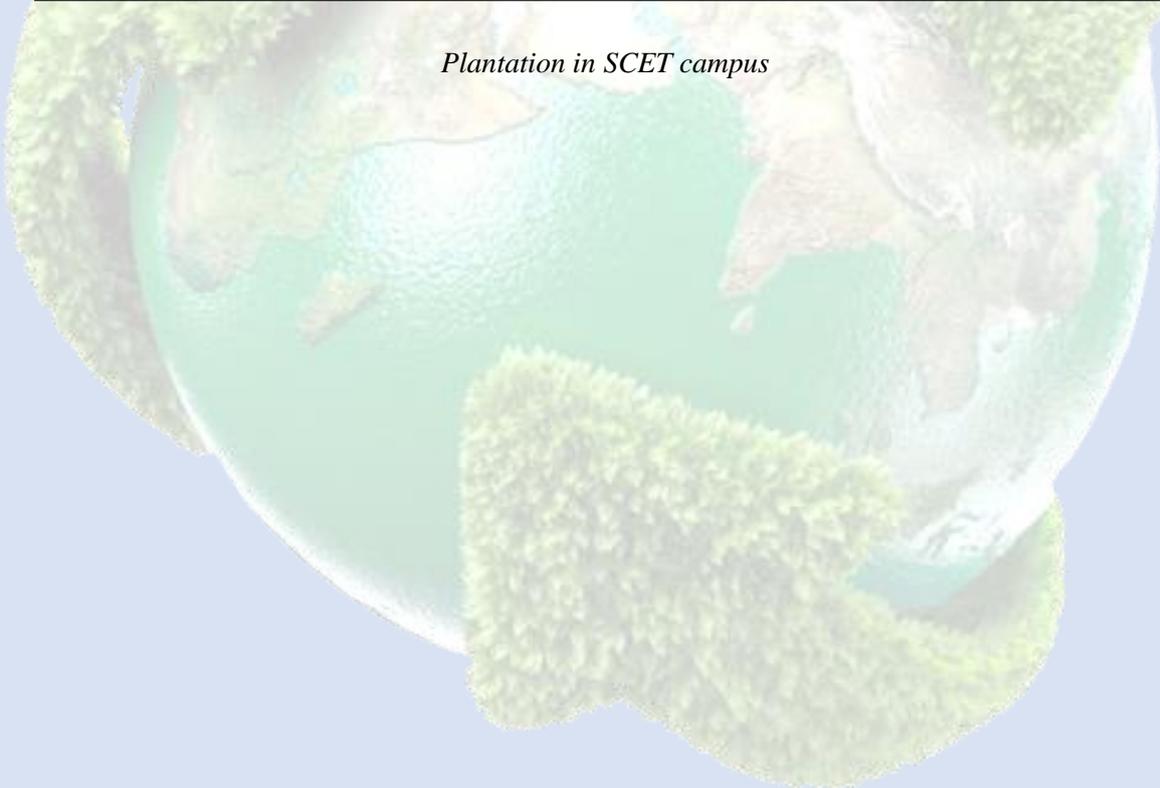
PLANTATION IN COLLEGE CAMPUS

On 18th April 2023, members of environment club planted various plants in the ground of college campus to create awareness among the students of the institute and to improve aesthetics of the environment while availing the various benefits of plantation as stated before. The activity was performed under the guidance of club mentor, Dr. Mehali Mehta. The seedlings planted in the college campus was brought from Krishi Vigyan Kendra Navsari Agricultural university and was selected on the basis of maximizing benefits to the environment. The seedlings planted include Spider plant, Dracaena, Fig Tree, Japanese Knotweed etc.





Plantation in SCET campus



KNOWING THE TREES AROUND YOU

To improve the environment around us it is necessary to know the shortcomings of the existing systems in our environment therefore we should primarily know our present surroundings. Thus, to raise awareness of the present surroundings among the members of the environment club an inventory of trees in the college campus was created. The various trees all around the campus were counted and their types were identified with the help of experience and technology. The benefits and drawbacks of the various types of trees were later discussed amongst the members which helped to expand the knowledge of the members.



Creation of inventory of campus trees

ENVIRONMENTAL AWARENESS

VISIT TO KIDS PLANET ENGLISH SCHOOL: PLANTATION AND ART COMPETITION

Raising environmental awareness amongst the upcoming generation is one of the most important tasks of any environmental organization to ensure that a sustainable world can be created. Inculcating ways of sustainable living into young minds (i.e. at young age) is proven to be more effective and beneficial for the children. Students learn to empathize with other people as well as the environment at a very young stage. Thus, to create environmental awareness amongst the children of



Plantation performed by children

our society, the members of the environment club visited Kids Planet English School, Surat and celebrated the environment by organising plantation and along with it an art competition. The students of primary section of the school were provided with the seedlings of plants and taught the method to plant a seedling in a pot and the proper way to nurture a plant. After receiving the guidance from the members, the students were encouraged to perform the activity on their own. The various benefits of plantation were explained later on to the students. This activity was followed by a short speech on environmental conservation, ways of conservation and its benefits addressed to the students to teach them about their surroundings and the dangers



Art Competition

that the environment might be facing in the near future and some of the solutions to avoid it. To involve students to a greater extent, an art competition was arranged, wherein groups of students were encouraged to create any piece of art on the topic of environment. The students artistically presented their ideas on sheets of paper using crayons. Later,

the groups of students with the best drawing were awarded ranks to appreciate their efforts.



Photos of Visit to Kids Planet English School