



# GREEN YOUTH MOVEMENT CLUBS (GYMC)

## 2025 Annual REPORT

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# OUR MISSION



## MISSION

CUST is engaged in going green and sustainability initiatives to ensure efficient resource conservation within the campus in the service of social responsibility to the planet and promote biodiversity that remains the answer to sustainable development.



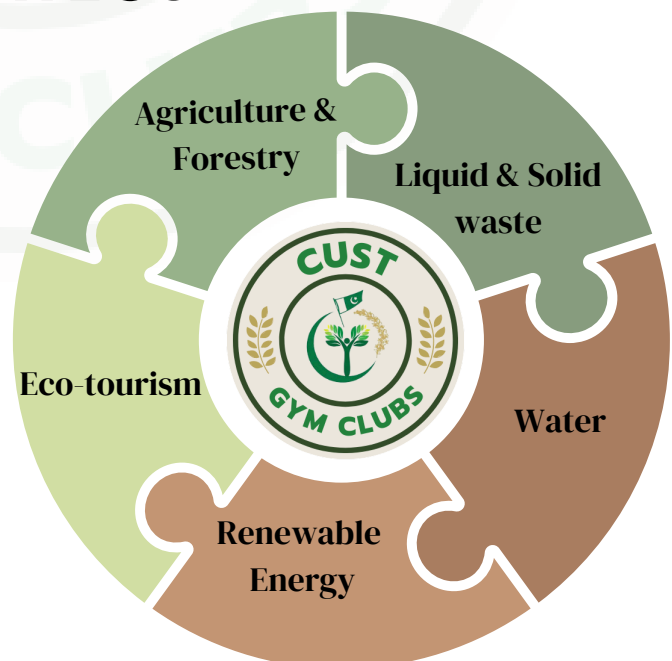
## VISION

To integrate resource conservation practices at CUST and to value and cherish nature that fosters the wellbeing of future generations through environmental sustainability.



## STRATEGY

1. Agriculture and forestry
2. Liquid and solid waste
3. Water
4. Renewable Energy
5. Eco-tourism







# FOCAL PERSON'S MESSAGE

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Going green and sustainability has become the core value in campus action. The CUST GYM Clubs initiative is aligned with the PM's Initiative Green Youth Movement by focusing the eight Sustainable Development Goals that falls under PM's Green Youth Movement Program.

Efficient resources conservation using unique sustainable solutions is essential to social prosperity. The CUST GYM Clubs is highly committed to constructing an eco-friendly sustainably operating framework by incorporating environmental and social dynamics into processes of decision making.

Becoming a sustainable and responsible educational institute not merely enhances our reputation but also enlightens a sense of pride in our students and faculty to be an integral part of an organization that cares for the planet. I believe that these initiatives will play a significant role in helping to realize a sustainable society.

CUST aims to become an educational institute that shares the joy of creating new value with all of its stakeholders as it steadily.





# CUST GYM CLUBS INTRODUCTION

## Introduction:

The Green Youth Movement (GYM) is an initiative of the Prime Minister's Youth Program. The program aims to enable youth in the country to spearhead sustainable development and green growth in the country. The initiative is also a means to transition toward SDGs no. 6, 7, 9, 11, 12, 13, 15 & 17.

## Vision:

To integrate resource conservation practices at CUST and to value and cherish nature that fosters the wellbeing of future generations through environmental sustainability.

## Mission:

CUST is engaged in going green and sustainability initiatives to ensure efficient resource conservation within the campus in the service of social responsibility to the planet and promote biodiversity that remains the answer to sustainable development.

## Key Objectives:

As explained in the Prime Minister's Youth Program, GYM at CUST is also committed to:

- Sensitize and organize youth for the promotion of environmental conservation and eco-friendly behavior among the masses
- Technically and financially invest in the demographic bulge of Pakistan youth and promote research and eco-innovation to spearhead environmental conservation and climate adaptation and mitigation
- Mentor and promote young eco-inventors at the national, regional, and international levels
- Harness global breakthroughs on eco-innovations for Pakistan
- Establish model green campuses-living labs for the promotion of best practices in renewable energy, waste management, water conservation, air quality maintenance, forestation/plantation, and eco-tourism.





# CUST GYM CLUB INTRODUCTION

## Key Thematic Areas:

GYM at CUST will focus the following thematic areas:

1. Agriculture and forestry
2. Liquid and solid waste
3. Water
4. Renewable Energy
5. Eco-tourism

## GYM Management Structure:

The CUST GYM management structure constitutes:

1. HEC Steering Committee (SC) and Project Management Unit (PMU).
2. Oversight Committee (OC) having a focal person and faculty members working in collaboration with HEC focal person.
3. Support Groups, as defined in Prime Minister's Youth Program. &
4. GYM Clubs consisting of Captain, Vice-Captain, Communication Lead, Thematic Leads and Members.

This structure is elaborated in Figure 1 (reference: Prime Minister's Youth Program GYM Project Structure)



Figure 1: CUST GYM Project Structure





# CUST GYM CLUB INTRODUCTION

## Tenure:

Tenure of OC shall be three (03) years as notified by the Registrar Office CUST and GYM Club shall have a minimum duration of One (01) year. Roles of GYM Clubs will be explained separately, as per guidelines of HEC SC&PMU.

## Key Functions of OC/Focal Person:

- Ensure the Formation and Functioning of GYM clubs.
- Perform advisory role and guide GYM clubs.
- Keep an oversight on the financial planning and consumption.

## Selection process of GYM Clubs:

The selection process of GYM Clubs shall be in accordance with the schematic diagram i.e., Figure 2.

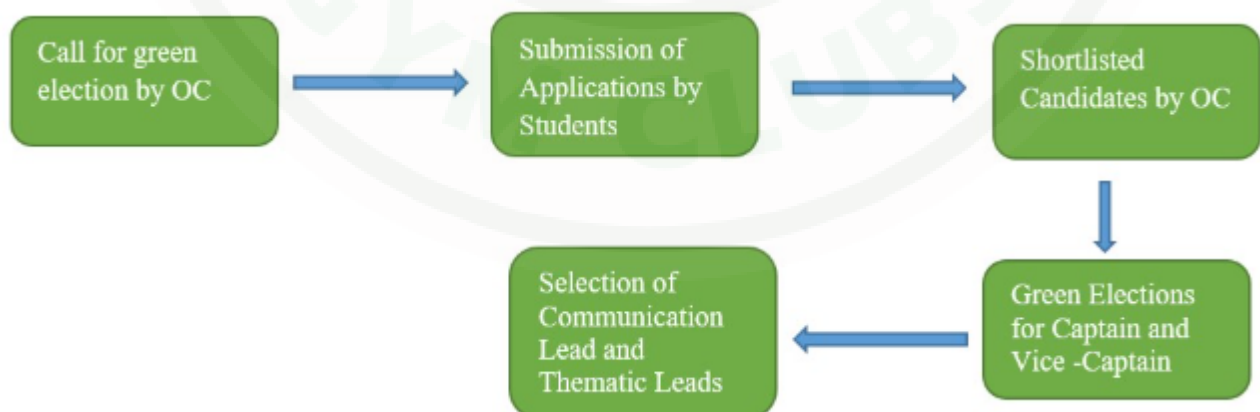


Figure 2: GYM Clubs Selection Process







# CUST GYM CLUB INTRODUCTION

## Activities of GYM Clubs:

| Themes                      | Activities (@ 200 thousand operational cost)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AGRICULTURE AND FORESTRY    | <ul style="list-style-type: none"><li>• Plantation drives - minimum twice a year.</li><li>• Tree Adoption</li><li>• Micro Farming</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LIQUID AND SOLID WASTE      | <ul style="list-style-type: none"><li>• Community clean-up drive – quarterly</li><li>• Conduct a Waste Audit of your University Campus</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| WATER                       | <ul style="list-style-type: none"><li>• Water conservation drive through Poster Competitions and Community Sessions</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CLEAN AND AFFORDABLE ENERGY | <ul style="list-style-type: none"><li>• Energy conservation drive through Poster Competitions and Community Sessions</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ECO-TOURISM                 | <ul style="list-style-type: none"><li>• Eco-tourism drive</li><li>• Students will be taken to national parks and other reserved sanctuaries to highlight challenges to the local environment and to inspire students to come up with ideas on eco-tourism.</li><li>• The students will be bound to write articles once they return and the articles will be published on mainstream media/social media.</li><li>• The participants will also be encouraged to think of ways and pilot projects to improve eco-tourism through GYM Clubs.</li><li>• The visits will also serve as an impetus for generating new marketable ideas around ecotourism in the country.</li><li>• anti-littering campaigns etc. at holiday destinations via V. Logs</li></ul> |





# CUST GYM CLUBS OVERSIGHT COMMITTEE



**Prof. Dr. Ishtiaq Hassan**  
Focal Person



**Ms. Aqsa Batool**  
Research Associate



**Dr. Arshia Amin Butt**  
Department of Bioinformatics  
& Biosciences



**Dr. Touseef Javed**  
Department of Electrical Engineering



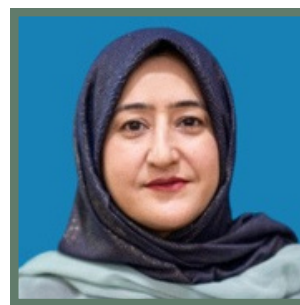
**Dr. Nitasha Gohar**  
Department of Pharmacy



**Ms. Rabia Habib**  
Department of Management Sciences



**Ms. Sadaf Adalat**  
Department of Accounting & Finance



**Ms. Farrah Iqbal**  
Department of English



**Ms. Uzma Mushtaq**  
Department of Psychology



**Engr. Talha Ahmed**  
Department of Civil Engineering

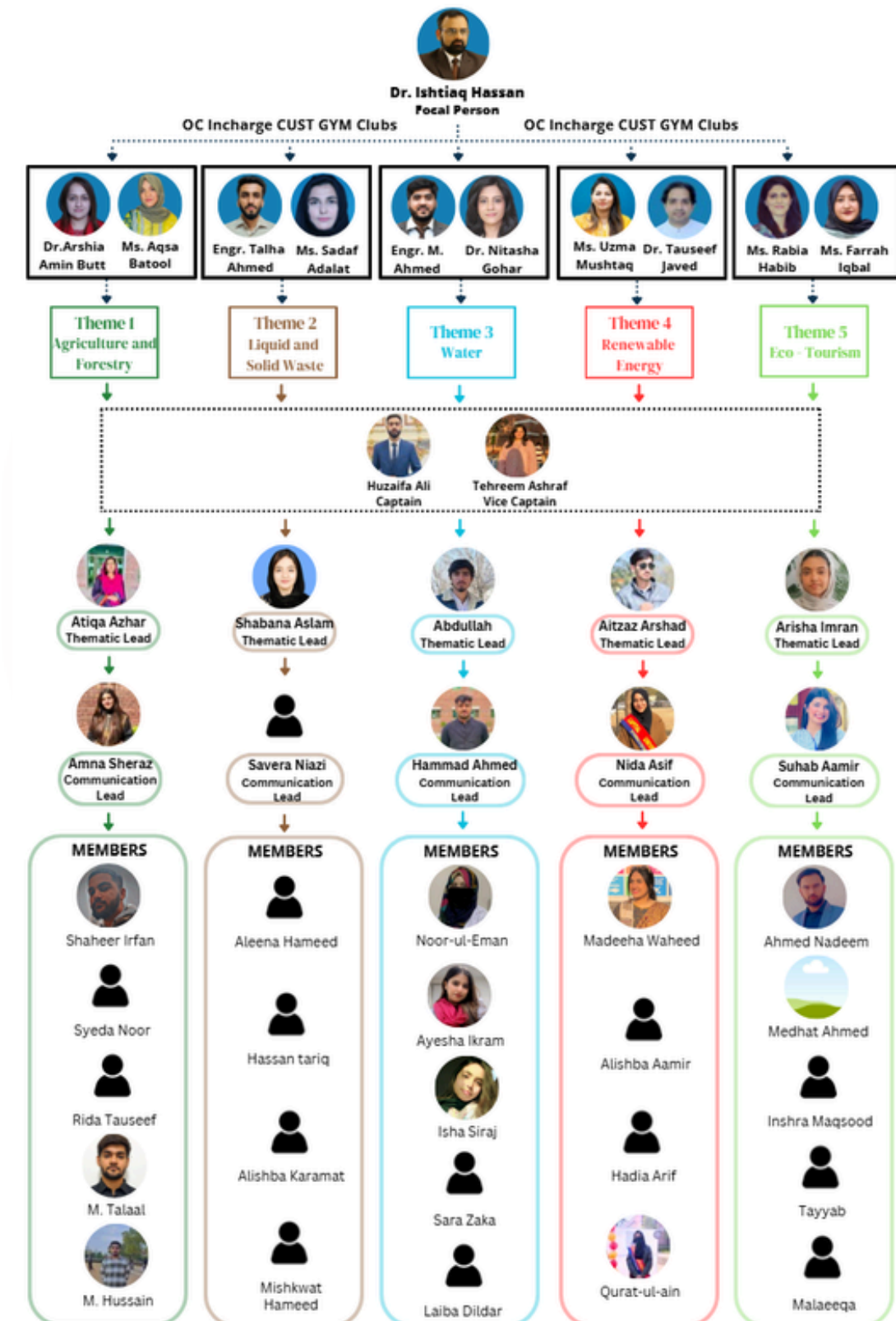


**Engr. Muhammad Ahmed**  
Department of Mechanical Engineering





# CUST GYM CLUBS STRUCTURE





## CUST GYM CLUBS POLICIES

# GREEN CAMPUS POLICY

This policy is to be read in relation to all other Environment policies as they also form part of Green Campus Policies but for the purpose of clarity, these are documented separately. Sustainable Green Campus and other relevant policies revolve around central vision and mission as defined below.

### Vision:

“To create a sustainable and environmentally responsible built environment that supports the well-being of students, staff, and faculty, while minimizing the university’s ecological footprint.”

### Mission:

“To design, construct, and operate buildings that meet the highest standards of sustainability, energy efficiency, and environmental responsibility, while providing healthy, safe, and productive learning and working environments.”

### Objectives:

The objectives of this policy are to:

- Reduce the environmental impact of and on the CUST's infrastructure including buildings and operations.
- Promote sustainable design, construction, and operations practices.
- Improve indoor air quality, occupants’ health, and productivity (see separate policies).
- Reduce energy and water consumption (see separate policies).
- Increase the use of renewable energy sources (see separate policy).
- Reduce waste generation and promote recycling (see separate policy).
- Enhance biodiversity and ecosystem services (see separate policy).

### Policy Statements:

The Green Campus policy is meant to:

- Ensure Green Campus, the ratio of open spaces to total campus area shall be kept more than 80%.
- Promote forestation by plantation of high shady trees on the periphery and at some suitable small area. This process will continue with the passage of time to shelter campus from external pollution.
- Develop and maintain large green lawns having grassy fields and small/low height plantation to give stakeholders and specially the students a healthy natural and clean environment.
- Provide more area for storm water absorption by constructing permeable driveways, parking spaces and walkways in addition to green lawns. This initiative will not only reduce stormwater runoffs but will also help to moist sub-surface for healthy plantation and to recharge lower layers of soil.
- Focusing needs of special persons by providing them dedicated parking lots, facilitating their movement with the help of fellow colleagues / attendants, ramps at building entries, lifts, dedicated toilets, etc.
- Provision and regular surveillance of safety and security through CCTV cameras, checks at campus entry points, evacuation plans, fire extinguishers / firefighting system, ambulance service, first-aid health care, day-care center, quick response by external rescue service and law-enforcing agency etc.







## CUST GYM CLUBS POLICIES

### GREEN CAMPUS POLICY

- Ensuring well equipped classrooms and laboratories with multi-media arrangement, auditorium seats, inverter ACs, LED lights, well-lit natural light and air through windows. All buildings are insulated by external walls having brick-facing / cavity walls, false ceiling, solar panels installation on roofs to provide shade in addition to insulated roofs.
- Smart Building Implementation: Capital University of Science and Technology has 100% smart building features such as:
  - a) Utilizing biometric authentication for secure access (for students, faculty and staff).  
Visitors are also properly registered at entry points before dedicated office movement.
  - b) Installation of IP cameras for monitoring and security
  - c) Ensured robust connectivity throughout campus.
  - d) Leveraged cloud storage, computing, and software for scalability.
  - e) Employed firewalls, intrusion detection, and encryption.
  - f) Store and manage research data, thesis, and publications.
  - g) Equipped with multimedia system.
  - h) Provides e-books, articles, and research databases.
- Proper and timely maintenance of whole infrastructure by respective established administrative offices.
- Review and update of policy as and when needed.







## CUST GYM CLUBS POLICIES

# ENERGY & CLIMATE CHANGE POLICY

To establish Capital University of Science and Technology, as a leader in energy efficiency and sustainability, is committed to reduce carbon footprint and promote culture of environmental responsibility.

### Objectives:

The objectives of this policy are to:

- **Promote Sustainable Practices:** Encourage sustainable practices among students, faculty, and staff, such as reducing energy consumption, using public transport / carpooling, tree plantation etc.
- **Invest in Renewable Energy:** Invest in renewable energy sources to reduce reliance on fossil fuel energy supplies by Govt. in addition to making buildings energy-efficient.

### Policy Statements:

- **Energy Efficient Appliances:** Capital University of Science & Technology intends to realize energy savings by paying close attention to energy management through use of energy efficient appliances such as LED lights and inverter ACs.
- **Smart Building Technologies:** Implement smart building technologies, such as energy management systems, automation, water consumption, well-lit indoor environment and use of energy efficient appliances.
- **Renewable Energy Source:** Total electricity usage remain 1MW per annum. CUST has installed and maintained solar power generation system of this capacity that meets 100% demand over the year requiring some power from WAPDA (Water and Power development Authority) during less solar months and producing & supplying more power to WAPDA system in bright solar months. Hence, greenhouse gas emission reduction would be approximately 1000 MTCO<sub>2</sub> per year. CUST is also undertaking other renewable energy systems through Design Projects such as low flow turbines installed on adjacent Soan river.
- **Sustainable Transportation:** CUST encourages sustainable transportation options, such as carpooling, using public transport, and promoting electric or hybrid vehicles. CUST diminishes single-occupant vehicle trips to encourage carpooling and it promotes share-the-ride models.
- **Energy Conservation Measures / Awareness:** CUST implements energy conservation measures, such as turning off lights, computers, and equipment when not in use. Tree-plantation drives help to increase a healthier environment leading to have cool campus feelings. The campus has vehicle-free movement reducing petroleum usage and carbon footprints. Debates, seminars and broadcast of energy conservation awareness talks etc. are also carried out on FM stations.
- **Implementation and Monitoring:** The university's administration is responsible for overseeing the implementation of this policy. This policy document may be reviewed and revised by The Directorate of Sustainability and Environment as per need.





## CUST GYM CLUBS POLICIES ENERGY & CLIMATE CHANGE POLICY

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## CUST GYM CLUBS POLICIES

# WASTE POLICY

Capital University of Science and Technology is committed to reducing waste and promoting sustainability through the 3R policy: Reduce, Reuse, and Recycle.

### Objectives:

- **Promote Sustainable Practices:** Encourage sustainable practices among students, faculty, and staff, such as reducing, reusing and recycling the waste of different categories.
- **Providing Neat and Clean Campus:** Invest to make the whole campus neat, clean and healthy by immediate and proper disposal of wastes.

### Policy Statements:

#### Reduce:

- **Paperless Initiatives:** Encourage professors and administrators to utilize digital resources for communication, assignments, and documentation, reducing the need for paper.
- **Energy Efficiency:** CUST implements energy-efficient lighting, heating, and cooling systems across campus buildings to reduce energy consumption. It ensures long-life appliances and combats storage and reduction of electric waste.
- **Water Conservation:** CUST promotes water-saving practices, such as installing low-flow faucets in toilets, and awareness to students, staff and faculty.
- **Minimize Single-Use Plastics:** Reduce the use of single-use plastics on campus by providing alternatives like reusable water bottles, containers, and utensils.
- **Smart Procurement:** Purchase products in bulk to reduce packaging waste and opt for eco-friendly products.
- **Paper Towel Reduction:** As a part of our ongoing efforts to enhance sustainability and reduce waste, paper towels have been replaced with electric hand dryers in all washrooms.

#### Reuse:

- **Textbook and Equipment Sharing:** Encourage students to share or borrow textbooks and equipment from libraries or designated sharing programs, reducing the need for new purchases.
- **Reusable Lab Coats:** In our laboratories, reusable lab coats are used to promote sustain environment.
- **Electronic Waste (E-waste):** Establish a collection system for old electronics such as computers and printers. The old compute systems are sent to unprivileged schools to facilitate students to learn basics of computer for their applications
- **Furniture and Supplies:** Reuse and refurbish furniture and office supplies whenever possible, rather than purchasing new items, is key consideration at CUST.
- **Lab Equipment:** Autoclave is used to decontaminate all the utensils (petri plates, test tubes, forceps, tongs, Jars etc.) used in any experiment in the lab so we can utilize them again and again.
- **Rain Harvesting:** Rain water is stored in large tanks so that we can utilize it again.
- **Leftover Sheets:** This year Cust Helping Hand Society managed to use leftover exam sheets to make 550 notebooks which will be distributed among needy children.







## CUST GYM CLUBS POLICIES

# WASTE POLICY

### Recycle:

- **Comprehensive Recycling Program:** Set up easily accessible recycling bins throughout the campus for paper, plastic, glass, and metal. Clearly label the bins to educate the community about proper sorting (shown in evidence).
- **Collaboration of CUST with Recycling Center:** Partnership with local recycling facilities to ensure that collect waste materials for proper processing and disposal.

### Waste handling, treatment and disposal:

- CUST has adopted 4-bin policy for segregation of waste at the point of first dump of waste to help disposal of different waste categories such as paper, plastic, glass and metals.



Processing and treatment are done as per type of waste, as explained below:

#### 1. Organic Waste Treatment

- Plants & herbs experimented in labs are properly handled; their waste is collected in separate bag, packed and carried away as required.
- Grass & plants that are shredded off, their waste is collected, packed in and sent for animal's food is surrounding dairy farms free of cost.
- Organic waste from cafeteria is also collected in separate bins and segregated. Bread items are sent to dairy farms for animal food. The rest are handled carefully and buried without causing pollution by external firms at designated places defined by the municipality.
- To conduct studies and research work finding eco-friendly means to treat organic wastes.







## CUST GYM CLUBS POLICIES

# WASTE POLICY

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### 2. Inorganic Waste Handling

Collection is done in 3-bins and hiring services of external firms for its effective handling. For example, CUST has been working in collaboration with UpCycled, launched by “Saaf Suthra Sheher” (i.e. neat and clean city) to demonstrate sustainable upcycling solutions in Pakistan. The products are made from waste, in some cases being reused, and in all others, UpCycled! Production of all products follow principles of fair trade, zero waste, and environmental sustainability.

### 3. Toxic Waste Treatment

There is very less quantity of toxic waste being generated from CUST. However, there are three types of toxic wastes generated from lab experimentation in Pharmacy, bio-sciences and civil engineering programs:

- **Chemicals:** The chemicals having acidic nature are diluted before disposal in sanitary drains.
- **Blood Samples:** Although, this toxic waste is very less in quantity, yet methods like bleaching, microwave treatments, and irradiation are being practiced. Major part of such experimentation in pharmacy program is performed in associated hospitals which have incinerators at their locations.
- **Dead animals:** The animals which are used for experimentation / operation are disposed of and buried outside the university premises, at designated places, as soon as daily experimentation (whenever performed) is over.
- **Wet Lab:** Regular inspection and sterilization of culture media and equipment to prevent contamination is carried out. Culture media is stored properly at the recommended temperature and expired media are autoclaved first and disposed of immediately.

### 4. Sewage Waste Treatment and Disposal:

Capital University aims to protect the natural environment and its surrounding by following the Environmental Quality Standards (NEQs) of Pakistan. Rather than releasing sewage waste into water bodies directly, it is better to treat it before discharge. The effluent of sewage is kept in septic tank where anaerobic digestion takes place and then sewage water is passed through filter beds to bring BOD and COD within acceptable limits. Thus, the sewage disposal includes two main treatments which includes:

- **Primary Treatment:** Physical process designed to remove large, solid materials from wastewater.
- **Secondary Treatment:** Designed to remove dissolved organic matter and additional suspended solids with the help of aeration tanks and trickling filters. Moreover, the TSS, BOD and COD are processed according to NEQs. There is filtration bed that gives treatment before treated sewage is soaked or disposed in river body.





## CUST GYM CLUBS POLICIES

# WASTE POLICY

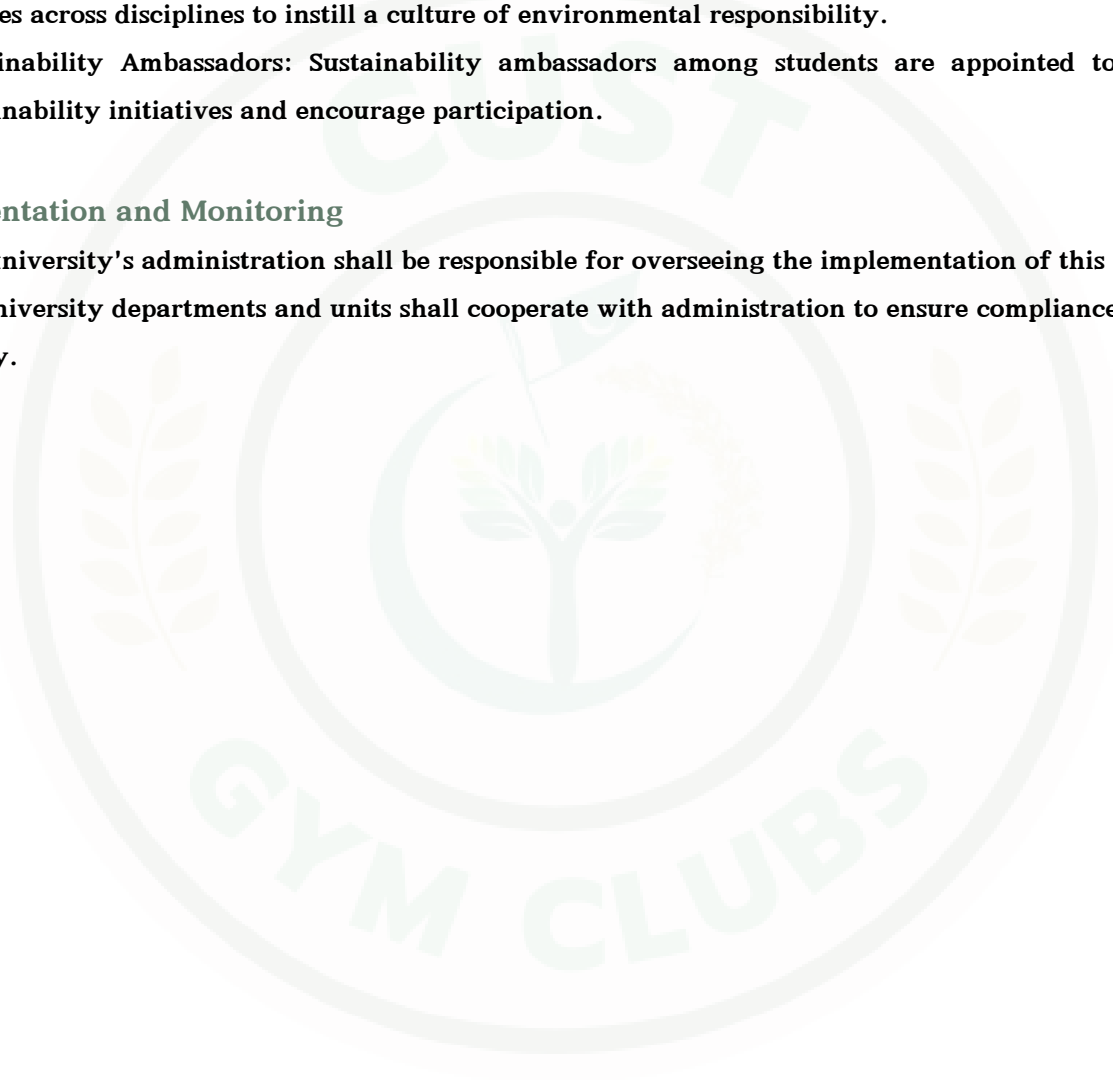
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### Education and Awareness:

- **Sustainability Workshops and Training:** Regular workshops and training sessions are being organized to educate students, faculty, and staff on sustainable practices and environmental responsibility.
- **Incorporate Sustainability into Curriculum:** CUST has integrated sustainability concepts into relevant courses across disciplines to instill a culture of environmental responsibility.
- **Sustainability Ambassadors:** Sustainability ambassadors among students are appointed to promote sustainability initiatives and encourage participation.

### Implementation and Monitoring

- The university's administration shall be responsible for overseeing the implementation of this policy.
- All university departments and units shall cooperate with administration to ensure compliance with this policy.





## CUST GYM CLUBS POLICIES

# WATER CONSERVATION POLICY

To promote a culture of water conservation and sustainability within Capital University of Science and Technology, reducing water consumption and protecting this precious resource for future generations.

### Objectives:

The objectives of this policy are to:

- Promote / educate water-efficient practices and behaviors among students, staff, and faculty.
- Implement water-saving technologies and infrastructure upgrades.
- Encourage water conservation in all aspects of university operations.

### Policy Statements:

- **Water-Saving Technologies:** Installing and replacing taps / mixers with sensors or press-to-flow taps and making less flow arrangements through control valves etc. CUST believes in the phrase “Every Drop Counts”.
- **Rainwater Harvesting:** Allowing rainwater to stay in green lawns, up to acceptable depth, for natural infiltration into the soil within a day or two. Water that creates runoffs is collected into storage tanks and is used for irrigating plants and grass at times of no rain.
- **Consumption of harvested rainwater:** Rainwater is consumed at CUST for:
  1. **Irrigation:** After some filtration, water is used for irrigation in gardens, and for plants.
  2. **Fountains:** After some filtration, water is used in fountains as well.
  3. **Cleaning and Maintenance:** Rainwater is employed for cleaning floors, toilets, and surfaces.
- **Utilization of ICT in Water Management:** The installation of IoT-based smart water meters to monitor real-time water usage are in consideration and necessary steps to do this are being taken.
- **Water Conservation Education and Awareness:** CUST encourages education and awareness programs on water conservation and sustainability for students, staff, and faculty.
- **Implementation and Enforcement:** The university's administration shall be responsible for overseeing the implementation of this policy. All university departments and units shall cooperate with administration to ensure compliance with this policy.





## CUST GYM CLUBS POLICIES

# TRANSPORTATION POLICY

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To create a sustainable, accessible, and connected transportation system that supports CUST's academic, research, and community engagement missions, while reducing environmental footprint and promoting a healthy and active lifestyle.

### Objectives:

- Encourage carpooling and bike sharing to reduce carbon footprint and parking demands.
- Promote reduction in travelling cost when number of people use one transport in pooling/sharing.
- Help to reduce traffic jams and burden on city roads.
- Ensure pedestrian safety and accessibility throughout the campus.

### Policy Statements:

- To abandon use of such busses (for students pick and drop) which are old enough and are causing GHGs emissions. Since, the busses owned by the university were of old models and were causing air and noise pollution, therefore, CUST decided to abandon their use and signed an MoU with BUSCARO whose coasters are not only causing less carbon emissions but are providing due comfort to the students in similar amount that was being charged with old vehicles.
- CUST promotes the culture of SHARING in the form of car and bike sharing. This initiative, that has been in practice for last few years, is causing not only a reduction of vehicle parking issues in the campus but also facilitating in terms of: (a) students ease to attend university, (b) less rush outside the university gate at off times, and (c) reducing burden on the city roads. Thus, there will be considerable reduction in carbon emissions not only at campus but also at city level.
- Promoting nearby residences for students and faculty. CUST has its close liaison, monitoring and understanding with the hostels and residences for students and faculty just by the skirts of it. This facility has resulted in pedestrian access of a large population of students in the university using no vehicle/transport.
- Pedestrian Infrastructure: CUST has performed premeditated engineering and design efforts in its master plan in such a way that arrangement of academic blocks and allied facilities has been done in such a way that there is no need of any transport for movement inside the campus.
- Facilities Management: Active staff remains available to restrict vehicle movements at designated parking places only and these places are besides entry points to campus. No one is allowed to break the parking and vehicle movement tracks. All vehicles are issued parking stickers and visitors car parking is at other designated places.







## CUST GYM CLUBS POLICIES

# EDUCATION AND RESEARCH POLICY

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To provide high-quality education that prepares students to address the complex sustainability challenges of the 21st century, while minimizing the university's environmental footprint.

### Objectives:

- Integrate sustainability into the curriculum across all disciplines.
- Provide opportunities for experiential learning and hands-on experience in sustainability.
- Foster a culture of sustainability among students, staff, and faculty.
- Reduce the university's environmental footprint through sustainable practices in education.
- Promote sustainable research practices that minimize environmental impact.
- Support research that addresses sustainability challenges and advances knowledge and innovation in sustainability.
- Foster collaboration and knowledge-sharing among researchers, policymakers, and industry leaders to promote sustainability.
- Ensure that research practices are environmentally responsible and sustainable.

### Policy Statements:

- **Sustainability in the Curriculum:** Pursuant to the university's commitment to sustainability, all academic programs and courses offered at CUST have been mapped to the United Nations' Sustainable Development Goals, ensuring that sustainability principles and practices are integrated in every discipline.
- **Experiential Learning:** CUST encourages and provides opportunities for experiential learning in sustainability, such as guest lectures by professionals, workshops, seminars, internships, research projects, and community engagement initiatives etc. focusing sustainability.
- **Sustainability Literacy:** The Directorate of sustainability and Environment provides training to student SDG ambassadors and resources to ensure that all students, staff, and faculty have a basic understanding of sustainability principles and practices.
- **Sustainable Practices in Education:** CUST has adopted sustainable practices in education, such as reducing paper usage, using energy-efficient equipment, and promoting virtual learning environments.
- **Environmental Impact Assessment:** Researchers shall conduct environmental impact assessments for all research projects, identifying potential environmental risks and developing strategies to mitigate them.
- **Sustainability Research:** CUST supports research that addresses sustainability challenges and advances knowledge and innovation in sustainability.
- **Collaboration and Knowledge-Sharing:** The university shall foster collaboration and knowledge-sharing among researchers, policymakers, and industry leaders to promote sustainability.





## CAPITAL UNIVERSITY'S ACHIEVEMENTS

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Capital University of Science and Technology has made significant strides in establishing itself as a leading institution. Among its notable achievements is its impressive ranking in the UI GreenMetric World University Rankings, a testament to CUST's commitment to sustainability and environmental responsibility. CUST is now ranked among the top 300 universities in the world and among the top 07 universities in Pakistan. According to the UI GreenMetric World University Ranking 2025, CUST is the 276<sup>th</sup> most sustainable university in the world, out of a total of 1745 universities worldwide. This has been accomplished using GreenMetric's competitive and rigorous ranking system for the evaluation of on-campus sustainability, which has been in place since 2007.

This ranking reflects university's efforts in areas such as energy conservation, waste management, water usage, and green infrastructure development. Beyond this specific recognition, CUST has consistently focused on academic excellence, research innovation, and producing graduates equipped to contribute meaningfully to society. Capital University of Science and Technology is committed to fostering a culture of sustainability and actively engaging its students in contributing to the achievement of the SDGs. We believe that involving young minds is crucial for creating a sustainable future.





## IMPLEMENTATION OF THE SUSTAINABLE DEVELOPMENT GOALS





## SUMMARY OF CUST GYM CLUBS EVENTS

| SR. NO. | THEME TITLE                      | NO. OF EVENTS |
|---------|----------------------------------|---------------|
| 1       | THEME 01: AGRICULTURE & FORESTRY | 13            |
| 2       | THEME 02: SOLID & LIQUID WASTE   | 04            |
| 3       | THEME 03: WATER                  | 08            |
| 4       | THEME 04: RENEWABLE ENERRGY      | 14            |
| 5       | THEME 05: ECO-TOURISM            | 08            |
|         | TOTAL NO. OF EVENTS              | 47            |







# THEME 01: AGRICULTURE & FORESTRY



## LIST OF ACTIVITIES

| SR. NO. | ACTIVITY TITLE                                             |
|---------|------------------------------------------------------------|
| 1       | Climate Hackathon                                          |
| 2       | Plastic Free Agriculture & Forestry                        |
| 3       | Green Campus Initiative: University-Wide Plantation Drive  |
| 4       | Awareness Walk for a 'Greener Future'                      |
| 5       | Youth for Green Revolution: A Student-Led Plantation Drive |
| 6       | World Earth Day: Awareness Walk                            |
| 7       | World Earth Day Celebration                                |
| 8       | Eco-art Exhibition                                         |
| 9       | Quick Quiz Buzz: My Green Card Pledge                      |
| 10      | World Environment Day                                      |
| 11      | Plant Distribution                                         |
| 12      | Mystery Tree Identification                                |
| 13      | Micro-Farming                                              |





### 01 AGRICULTURE AND FORESTRY



## ACTIVITY 01: CLIMATE HACKATHON

**Organized By:  
Theme 01 Team**



As part of the Climate Hackathon, the Trash to Treasure Challenge promoted sustainable solutions aligned with Theme 1: Agriculture and Forestry by encouraging participants to transform agricultural waste, organic residues, and discarded materials into valuable resources such as compost, biofertilizers, mulching materials, eco-friendly packaging, and low-cost farming tools. The challenge highlighted the environmental impacts of improper waste disposal and demonstrated how circular economy approaches can enhance soil fertility, improve agricultural productivity, support sustainable forestry practices, reduce pollution, and minimize dependence on chemical inputs. Through innovative waste-to-resource solutions, participants developed practical, environmentally responsible ideas that contribute to climate-resilient agriculture, sustainable land management, and long-term environmental sustainability.



### 01 AGRICULTURE AND FORESTRY



## ACTIVITY 02: PLASTIC-FREE AGRICULTURE AND FORESTRY

**Organized By:**  
Theme 01 Team



As part of the Green Youth Movement Program, a Plastic Free Awareness Activity was organized to promote environmental responsibility and sustainable practices among students. The event included an awareness test on Plastic Free Living, aligned with SDG 14 (Life Below Water), focusing on the impacts of plastic pollution on ecosystems. Participants explored how improper plastic disposal affects soil health, water quality, crop productivity, forest biodiversity, and marine environments. In line with Theme 1: Agriculture and Forestry, the activity emphasized plastic-free farming and forestry practices, including the use of biodegradable alternatives and the prevention of plastic accumulation in soils and natural habitats. The event strengthened students' understanding of the land-water connection and encouraged sustainable land-use practices to support environmental conservation and a plastic-free future.





**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 03: GREEN CAMPUS INITIATIVE: UNIVERSITY-WIDE PLANTATION DRIVE

**Organized By:**  
Theme 01 Team



GYMC in collaboration with the English Department, organized a plantation drive bringing together the Vice-Chancellor, Head of English Departments (HoD), and esteemed faculty members in a united effort to promote environmental sustainability. The event aimed to enhance the green cover on campus and raise awareness about the importance of tree plantation in combating climate change. Each dignitary took part in planting saplings, symbolizing their commitment to creating a cleaner, greener, and healthier environment. The initiative fostered a strong message of collective responsibility and environmental stewardship within the academic community. This meaningful activity aligned with SDG 13: Climate Action, reinforcing the need to take urgent steps to mitigate the effects of climate change through nature-based solutions like afforestation. The event concluded with a renewed dedication from all participants to support sustainable practices and environmental initiatives on campus.



### 01 AGRICULTURE AND FORESTRY



## ACTIVITY 04: AWARENESS WALK FOR A 'GREENER FUTURE'

**Organized By:**  
**Theme 01 Team**



The awareness walk organized by the Department of English, in collaboration with GYM, not only aimed at fostering a 'Greener Future' but also passionately emphasized the significance of sustainable practices. This event successfully advocated for environmental consciousness and encouraged actionable steps toward a cleaner, greener, and more sustainable world. The collective efforts during the walk were a powerful reminder of our shared responsibility to protect and preserve the environment for future generations. By promoting awareness about the interconnectedness of our actions with the broader global goals, the walk inspired a sense of duty and commitment among participants, reinforcing the commitment to contribute positively to the well-being of our planet.





**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 05: YOUTH FOR GREEN REVOLUTION: A STUDENT-LED PLANTATION DRIVE

**Organized By:**  
**Theme 01 Team**



A plantation drive was organized in collaboration with the Gym Club and the Directorate of Sustainability and Environment (DSE) to promote environmental sustainability and support SDG 13. Students actively participated by planting saplings not only on campus but also at home and in their communities—wherever they could. This widespread effort reflected their shared commitment to addressing climate change and building a greener future. Through this initiative, students demonstrated how small individual actions can collectively contribute to a more sustainable and ecologically balanced world. Meaningful discussions accompanied the activity, further reinforcing the importance of environmental responsibility.



01 AGRICULTURE  
AND FORESTRY



### ACTIVITY 06: WORLD EARTH DAY: AWARENESS WALK

**Organized By:**  
Theme 05 Team



CYMC in collaboration with the English Department, organized an Awareness Walk on World Earth Day to emphasize the importance of environmental protection and sustainability. The event aimed to engage students and faculty in meaningful dialogue about climate change and the role of individual and collective action in preserving the planet. Everyone participated with enthusiasm, carrying placards and banners that highlighted urgent environmental issues such as global warming, pollution, and deforestation. The walk created a vibrant atmosphere of awareness, unity, and responsibility, encouraging participants to reflect on the environmental impact of their choices. Aligned with SDG 13, this initiative underscored the value of awareness in driving behavioral change and mobilizing communities toward a more sustainable future.





01 AGRICULTURE  
AND FORESTRY



## ACTIVITY 07: WORLD EARTH DAY CELEBRATION

**Organized By:**  
Theme 01 Team



The Department of Bioinformatics and Biosciences organized an engaging desk activity on "Earth Day". The primary aim of this activity was to promote awareness about sustainable environmental practices, specifically in the context of agriculture and forestry, and to encourage students to become proactive contributors to ecological well-being. This activity directly aligned with the educational and ethical goals of the Green Youth Movement Club. It enabled students to extend classroom knowledge into real-world application by educating their peers and promoting awareness about crucial environmental issues. The initiative supported the values of community engagement and environmental stewardship while reinforcing the Sustainable Development Goals, particularly SDG 13 – Climate Action and SDG 15 – Life on Land.



**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 08:

## ECO-ART EXHIBITION

**Organized By:**  
**Theme 01 Team**



The Department of Sustainability and Environment (DSE), in collaboration with the Department of Bioinformatics and Bioscience, GENIX Society, successfully hosted the Eco Art Exhibition on May 21<sup>st</sup>, 2025 from 9:00 AM to 12:00 PM at the B Block corridor. The event utilized eye-catching posters to promote the event and convey its message of environmental sustainability. Featuring striking visuals and creative designs, the posters highlighted the importance of protecting our planet and showcased the innovative artworks on display. With a clear emphasis on SDG 15: Life on Land, the posters effectively communicated the exhibition's goals and encouraged attendees to join in promoting eco-friendly practices. By leveraging visual art, the posters played a crucial role in engaging the community and inspiring action towards a more sustainable future.



**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 09: QUICK QUIZ BUZZ: MY GREEN CARD PLEDGE

**Organized By:**  
**Theme 01 Team**



The Department of Bioinformatics and Biosciences organized an engaging educational activity titled "Quick Quiz Buzz + My Green Card Pledge" on April 17th, 2025, at the Scientific Model School. The session aimed to raise awareness among students about environmental sustainability and responsible practices in agriculture and forestry. The event began with the introduction of the Green Youth Club initiative and its goals. Students made pledges related to their commitment to environmental stewardship, specifically in the areas of forestry and agriculture. "My Green Card Pledge" encouraged participants to commit to small yet impactful eco-friendly actions. The activity fostered enthusiasm for sustainable development among young minds in line with the Sustainable Development Goal 15. The "Quick Quiz Buzz" segment tested students' knowledge through a fast-paced, interactive quiz, students divided into 3 groups and a round-based competition was held where the group with the most points after the end of the rounds won.





**01** AGRICULTURE  
AND FORESTRY



## ACTIVITY 10:

## WORLD ENVIRONMENT DAY

**Organized By:**  
**Theme 01 Team**



World Environment Day was organized by the Directorate of Sustainability and Environment in collaboration with the GENIX Society and the GYM Club. Students and faculty gathered in front of F-Block participate in this engaging activity. The event aimed to raise awareness about the importance of trees and their role in sustaining the environment. By identifying and learning about various tree species, participants gained a deeper understanding of the significance of conservation and sustainability. To further promote sustainability, saplings were distributed among faculty members. This initiative aligns with the United Nations' Sustainable Development Goal 15: Life on Land, specifically Target 15.1, -15.9 and 15.a-15.c, focusing on ecosystem conservation, combating desertification, and fair sharing of genetic resources.





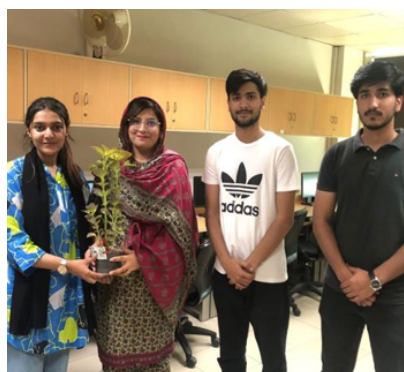
**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 11:

### PLANT DISTRIBUTION

**Organized By:**  
**Theme 01 Team**



The Department of Bioinformatics and Biosciences, in collaboration with the Green Youth Movement Club, organized a Plant Distribution Event on campus as a practical initiative under the theme of Agriculture and Forestry. This event aimed to promote greenery, environmental responsibility, and sustainable living among university students and staff. Participants were provided with a variety of plants including medicinal herbs, flowering plants, and local tree saplings, all carefully selected to thrive in the local climate. The plants were distributed free of cost, along with brief guidance on how to care for them, ensuring that recipients felt both motivated and equipped to nurture their plant at home or in their surroundings.



**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 12:

### MYSTERY TREE IDENTIFICATION

**Organized By:**  
**Theme 01 Team**



The Department of Bioinformatics and Biosciences, in collaboration with the Green Youth Movement Club, organized a Mystery Tree Identification activity aimed at encouraging students to engage with nature in an interactive and educational manner. Participants were given riddles on pieces of paper to solve to identify a particular species of tree. The findings were submitted along with photographic evidence and a brief report on the tree's ecological role or any interesting facts. The initiative aligned with the department's emphasis on experiential learning by blending field-based observation with theoretical knowledge. It also supported broader sustainability goals: SDG 13 (Climate Action) through increased awareness of green cover and its role in climate regulation (Target 13.3), SDG 15 (Life on Land) by promoting understanding and appreciation of terrestrial biodiversity (Target 15.1), and SDG 4 (Quality Education) by cultivating environmental literacy and research skills (Target 4.7).



**01** AGRICULTURE  
AND FORESTRY



### ACTIVITY 13:

### MICRO-FARMING

**Organized By:**  
**Theme 03 Team**



As part of the Green Youth Movement (GYM) Club – Theme 3: Water, students participated in a Microfarming Activity during the summer break by growing herbs and vegetables in their kitchens and balconies. The initiative promoted sustainable use of limited space, home gardening, and responsible water use while contributing to SDG 2 (Zero Hunger) and SDG 6 (Clean Water and Sanitation). Through hands-on gardening, students developed practical skills, enhanced food security awareness, and fostered environmental stewardship. The activity demonstrated how small household actions can support healthy living, resource efficiency, and sustainability while encouraging greater responsibility, self-reliance, and appreciation for nature.







# THEME 02: SOLID AND LIQUID WASTE





## LIST OF ACTIVITIES

| SR. NO. | ACTIVITY TITLE                                 |
|---------|------------------------------------------------|
| 1       | Cleanup Drive: Campus Initiative               |
| 2       | Community Clean-Up Campaign                    |
| 3       | Eco-Clean Tourism Initiative                   |
| 4       | Poster Making Competition for Waste Management |



### 02 SOLID AND LIQUID WASTE



## ACTIVITY 01: CLEANUP DRIVE: CAMPUS INITIATIVE

**Organized By:  
Theme 02 Team**



The clean-up drives organized by the Department of Accounting and Finance students provided a practical platform for community engagement. By participating in the planning, execution, and reflection of these activities, students enhanced their communication, teamwork, and leadership skills, essential for future workforce readiness and entrepreneurship. The initiative encouraged students to take initiative in addressing real-world problems through waste segregation techniques, community education, and collaborative teamwork. This experience prepared students for future professional roles while instilling a sense of responsibility and promoting sustainable practices.



**02** SOLID AND  
LIQUID WASTE



## ACTIVITY 02:

## COMMUNITY CLEAN-UP CAMPAIGN

**Organized By:**  
**Theme 02 Team**



Green Young Movement (GYM), the theme two liquid and solid waste at Capital University conducted a waste audit to analyze the volume and type of waste produced in and around the university. The team collected data from different locations and categorized waste into recyclables, organic, and non-recyclables. This helped identify key problem areas and gave insights into daily waste patterns. After the audit, findings were shared with students and faculty to encourage better waste management practices. The purpose was to build a culture of responsibility and sustainability through data-driven actions and increased environmental consciousness. The activity also motivated students to take ownership of their environment and become agents of change within their campus.





### 02 SOLID AND LIQUID WASTE



## ACTIVITY 03:

## ECO-CLEAN TOURISM INITIATIVE

**Organized By:**  
**Theme 02 Team**



Students from various departments participated in a series of community clean-up drives under Theme 2: Liquid and Solid Waste Management on 19–20 May 2025. Held at Zaraj Housing Society, Saif ul malook lake Naran, Family Park PWD, and Naval Anchorage Food Street, the drives resulted in the collection of 10 kg of waste—6 kg recyclable and 4 kg non-recyclable. Equipped with gloves and labeled bags, students cleaned parks and residential areas, overcoming challenges like permission issues, heat, and waste sorting. The activity promoted environmental responsibility, waste segregation, and community involvement. Students also suggested sustainable practices such as installing segregated bins, organizing regular clean-ups, and partnering with recycling facilities. This activity supports Theme 2 by promoting effective solid waste management and aligns with SDGs by fostering environmental sustainability and responsible community action.



**02 SOLID AND LIQUID WASTE**



## ACTIVITY 04: POSTER MAKING COMPETITION FOR WASTE MANAGEMENT

**Organized By:**  
**Theme 02 Team**



The Green Young Movement (GYM), the Theme Two Liquid and Solid Waste at Capital University of Science and Technology (CUST) organized a poster-making competition to raise awareness about effective waste management. The activity aimed to engage students creatively in highlighting environmental concerns, especially the impacts of mismanaged waste. Participants designed informative and visually appealing posters that showcased solutions like recycling, composting, and the reduction of single-use plastics. This initiative not only encouraged youth participation and critical thinking but also spread a strong message across campus about sustainability. It served as a platform for students to express their ideas and become active advocates for a cleaner environment. The posters were displayed across campus to inspire the wider student body. This initiative also encouraged healthy competition and team spirit among participants.







**THEME 03:**

**WATER**





## LIST OF ACTIVITIES

| SR. NO. | ACTIVITY TITLE                                  |
|---------|-------------------------------------------------|
| 1       | Save Water Campaign: Awareness Desk             |
| 2       | Save Water Campaign: Awareness Walk             |
| 3       | FM Talk on Water Conservation                   |
| 4       | Seminar on Saving Water                         |
| 5       | Poster Competition on Water Conservation        |
| 6       | Presentations on Water Conservation             |
| 7       | Water Bottle Distribution Drive                 |
| 8       | Importance of Water Conservation through Sunnah |



## 03 WATER



### ACTIVITY 01:

### SAVE WATER CAMPAIGN: AWARENESS DESK

**Organized By:**  
**Theme 03 Team**



A “Save Water Awareness Desk” event was organized by the ASCE to highlight the importance of sustainable water management in alignment with Sustainable Development Goal 6 (Clean Water and Sanitation). Particularly, this event aligned with SDG 6.4, which focuses on increasing water use efficiency and ensuring sustainable freshwater withdrawals to address water scarcity. The event aimed to educate students and faculty on the urgent need to conserve water and ensure its availability for all. Through informational posters, and interactive discussions, participants learned about practical strategies to reduce water wastage and improve water use efficiency in daily life. The desk also highlighted the global water crisis and the importance of community action in achieving universal access to safe and affordable water.



### 03 WATER



## ACTIVITY 02: SAVE WATER CAMPAIGN: AWARENESS WALK

**Organized By:**  
Theme 03 Team



Water conservation in alignment with Sustainable Development Goal 6 (Clean Water and Sanitation). Particularly, this event aligned with SDG 6.4, which focuses on increasing water use efficiency and ensuring sustainable freshwater withdrawals to address water scarcity. The walk saw enthusiast participation from students, who carried banner with compelling messages promoting sustainable use of water, The purpose of the event was to inform the wider community about increasing threats and water scarcity and the Importance of ensuring clean and safe water for all. Throughout the walk, educational flyers were distributed, offering simple and effective water-saving techniques for households, Institutions, and agriculture. The event also aimed to encourage behavioral changes by fostering a sense of environmental responsibility among participants.





### 03 WATER



## ACTIVITY 03: FM TALK ON WATER CONSERVATION

**Organized By:**  
**Theme 03 Team**



The CUST GYM Club in collaboration with the Directorate of Sustainability and Environment (DSE), organized an FM talk on "Conservation of Water" to support SDG 6 (Clean Water and Sanitation). The session highlighted practical strategies for water conservation, the impact of water scarcity, and the role of individuals and institutions in ensuring sustainable water management. Through engaging discussions, students explored innovative solutions and best practices, fostering critical thinking and awareness about global water challenges. By integrating education with sustainability, the talk emphasized how informed individuals can drive positive change. The session concluded with a call to action, urging everyone to adopt water-saving habits and contribute to a water-secure future through responsible knowledge and action.



## 03 WATER



### ACTIVITY 04:

### SEMINAR ON SAVING WATER

**Organized By:**  
**Theme 03 Team**



A “Save Water” campaign was organized on 12 May, 2025 to raise awareness about the critical importance of water conservation and to promote responsible usage among the public. The campaign featured activities such as awareness drives, educational demonstrations, and the distribution of informational materials outlining practical methods to reduce water wastage, including repairing leaks, using water-efficient fixtures, and practicing mindful consumption. This initiative aligns with Sustainable Development Goal (SDG) 6: Clean Water and Sanitation, particularly Target 6.4, which aims to increase water-use efficiency and ensure sustainable freshwater availability.

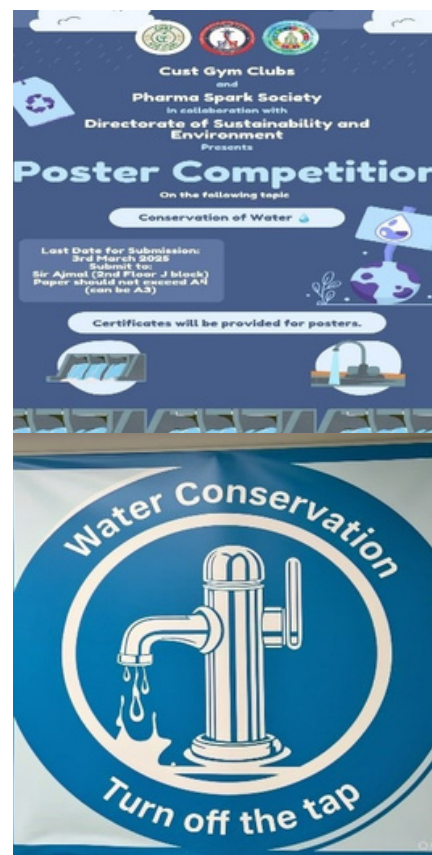


## 03 WATER



## ACTIVITY 05: POSTER COMPETITION ON WATER CONSERVATION

**Organized By:**  
**Theme 03 Team**



The Directorate of Sustainability and Environment (DSE), in collaboration with CUST GYM CLUB, organized an Online Poster Competition on the theme "Water Conservation" to support SDG 6 (Clean Water and Sanitation), specifically focusing on its sub-targets 6.4 (Increase water-use efficiency), 6.5 (Implement integrated water resources management), and 6.6 (Protect and restore water-related ecosystems). The competition aimed to engage students in raising awareness about water conservation through creative online submissions. Participants submitted their posters digitally, showcasing innovative designs that highlighted the importance of reducing water wastage, protecting water ecosystems, and promoting efficient water management.





### 03 WATER



## ACTIVITY 06: PRESENTATIONS ON WATER CONSERVATION

**Organized By:**  
**Theme 03 Team**



The Directorate of Sustainability and Environment (DSE), in collaboration with CUST GYM CLUBS, organized an insightful presentation on "Water Conservation" to support SDG 6. Students participated in the presentation on March 19, 2025, from 11:30 am to 12:15 pm. The session highlighted practical strategies for responsible water conservation, the environmental and economic impacts of water consumption, and the role of individuals and institutions in promoting sustainable water practices. Students actively engaged in discussions, exploring innovative solutions such as renewable water adoption, smart water usage, and waste reduction in water use. The presentation concluded with a call to action, urging everyone to adopt water-efficient habits and contribute to a sustainable water future.



## 03 WATER



### ACTIVITY 07: WATER BOTTLE DISTRIBUTION DRIVE

**Organized By:**  
Theme 03 Team



On June 17, 2025, the GYM Club and Pharma Spark Society collaborated on a Water Bottle Distribution Drive at the university campus, promoting hydration awareness and showing appreciation to security guards. The initiative, aligned with SDG 6 (Clean Water and Sanitation), highlighted the importance of access to clean drinking water, especially during extreme weather. Water bottles were distributed to guards as a gesture of thanks and care, emphasizing regular water intake, health benefits of hydration, and appreciation for campus staff. The event successfully combined health awareness and social compassion, creating a positive impact within the campus community and reinforcing values of community care and kindness.





## 03 WATER



### ACTIVITY 08: IMPORTANCE OF WATER CONSERVATION THROUGH SUNNAH

Organized By:  
Theme 03 Team



Water conservation is a vital practice emphasized in Islam, deeply rooted in the Sunnah of the Prophet Muhammad ﷺ, who used minimal water for ablution and discouraged waste even when water was plentiful, as seen in the hadith, “Do not waste water, even if you are at a flowing river” (Ibn Majah). This practice reflects the Islamic values of moderation and environmental stewardship and aligns directly with the United Nations Sustainable Development Goal SDG 6: Clean Water and Sanitation, particularly Target 6.4 (increasing water-use efficiency) and Target 6.6 (protecting water-related ecosystems). By following the Sunnah, Muslims can uphold both their religious duty and contribute to global sustainability efforts.







# THEME 04: RENEWABLE ENERGY



## LIST OF ACTIVITIES

| SR.<br>NO. | ACTIVITY TITLE                                                   |
|------------|------------------------------------------------------------------|
| 1          | Visit to University's Power House                                |
| 2          | Promoting the Usage of Clean Energy                              |
| 3          | Seminar on Sustainable Energy Solutions for Developing Countries |
| 4          | Study Tour to Mangla Hydro Power Plant                           |
| 5          | Responsible Production and Conservation of Energy                |
| 6          | Animated Screening - The Magic School Bus: Getting Energized     |
| 7          | Digital Poster Competition                                       |
| 8          | How Green Energy Will Change Our Future                          |
| 9          | Hand-Drawn Poster Competition                                    |
| 10         | Student Survey - Renewable Energy                                |
| 11         | Study Visit - Exploring the Energy Backbone of CUST              |
| 12         | Seminar on Rooftop Solar Installations Designing                 |
| 13         | Seminar on Understanding Small Wind Turbines                     |
| 14         | Sustainable Strokes- Art for Energy and Well-being               |



04 RENEWABLE  
ENERGY



## ACTIVITY 01: VISIT TO UNIVERSITY'S POWER HOUSE

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering in collaboration with the Directorate of Sustainability and Environment (DSE) organized a knowledge enriching Visit to the University's Power House(Solar Hub) to support SDG 07, specifically targeting 7.a to enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency, and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology. Students from different departments enthusiastically participated in seeing the Power House and the Solar Hub. The guests explained all the systems and technology used in the Power House, provided real-time values of different systems active in providing clean energy to the university, and answered questions from all the students. The modern technology used to balance the university's electrical loads drew the attention of students. The event encouraged the students to foster a culture of sustainability in and beyond the campus.





04 RENEWABLE  
ENERGY



## ACTIVITY 02: PROMOTING THE USAGE OF CLEAN ENERGY

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering organized an insightful Seminar on Promoting the Usage of Clean Energy to support SDG 07, specifically targeting 7.a, which aims to enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency, and advanced cleaner fossil-fuel technologies. The seminar highlighted the significance of clean energy in mitigating climate change, reducing fossil fuel dependency, and advancing sustainable development. The session explored various clean energy technologies, including solar power, wind energy, hydropower, geothermal systems, and biomass, emphasizing their practical applications in homes, transportation, and industry. Participants gained a deeper understanding of the challenges in adopting clean energy, such as high initial costs and infrastructure limitations, along with solutions involving government incentives, technological innovations, and community awareness.



**04** RENEWABLE  
ENERGY



### ACTIVITY 03: SUSTAINABLE ENERGY SOLUTIONS FOR DEVELOPING COUNTRIES

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering organized a Seminar on Sustainable Energy Solutions for Developing Countries to address global energy challenges and promote SDG 07. This seminar specifically targeted SDG 7.1, which aims to ensure universal access to affordable, reliable, and modern energy services. The session explored various renewable energy technologies, including solar power, wind energy, and bioenergy, emphasizing their role in providing clean and sustainable power solutions. Key topics included the benefits of solar panels in powering remote areas, wind turbines for scalable energy projects, and bioenergy as a means of turning organic waste into power. The seminar highlighted the importance of sustainable energy in eradicating poverty, combating climate change, and enhancing public health.



**04 RENEWABLE  
ENERGY**



## ACTIVITY 04: STUDY TOUR TO MANGLA HYDRO POWER PLANT

**Organized By:  
Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE), organized an insightful study tour to Mangla Hydro Power Plant to "Explore the Wonders of Hydropower and foster a deeper understanding of Sustainable Energy solutions" to support SDG 07, specifically targeting 7.1. Students actively participated in this educational excursion, gaining a deeper understanding of hydropower technology and its role in sustainable energy generation. Experts on-site provided a comprehensive overview of the dam's history, technical operations, and its contribution to national energy production. Students observed real-time operations of turbines and control systems, fostering an appreciation for the intricacies of renewable energy management. The tour concluded with an interactive Q&A session, inspiring students to engage in sustainable energy initiatives and innovative solutions for future energy challenges.





**04** RENEWABLE  
ENERGY



### ACTIVITY 05: RESPONSIBLE PRODUCTION AND CONSERVATION OF ENERGY

**Organized By:**  
Theme 04 Team



The Directorate of Sustainability and Environment (DSE), in collaboration with CUST GYM CLUBS, organized an FM talk on "Responsible Production and Conservation of Energy" to support SDG 7.2 (Affordable and Clean Energy). The session highlighted practical strategies for responsible energy use, the environmental and economic impacts of energy consumption, and the role of individuals and institutions in promoting sustainability. By engaging students in discussions on renewable energy, smart consumption, and waste reduction, the talk fostered critical thinking, problem-solving, and global awareness. It reinforced how education plays a key role in equipping individuals with the knowledge and skills needed to tackle sustainability challenges. The session concluded with a call to action, encouraging energy-efficient habits and reinforcing the link between education and environmental responsibility for a sustainable future.



**04** RENEWABLE  
ENERGY



### **ACTIVITY 06: ANIMATED SCREENING - THE MAGIC SCHOOL BUS: GETTING ENERGIZED**

**Organized By:  
Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, hosted an animated screening of "The Magic School Bus: Getting Energized." The screening provided school students with a fun and educational introduction to energy sources, including renewables like solar, wind, and water power. This event supported SDG 07, addressing Target 7.1, by introducing basic concepts of energy access and sustainability, and Target 7.5, by promoting energy education for youth in a developing country through an engaging and accessible format.



**04 RENEWABLE ENERGY**



## ACTIVITY 07: DIGITAL POSTER COMPETITION: CONSERVATION OF ENERGY

**Organized By:  
Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized a Digital Poster Design Competition titled "Innovative Solutions for Renewable Energy Transition." This event encouraged students to design and submit digital posters envisioning advanced renewable energy technologies and smart grids. It was aligned with SDG 07, particularly Target 7.2, by promoting student-led awareness of renewable energy's importance in transitioning away from fossil fuels, and Target 7.4, by fostering creative engagement with research and technological innovation in clean energy. The competition showcased the role of youth in spreading sustainability through digital creativity.





**04** RENEWABLE  
ENERGY



### ACTIVITY 08: HOW GREEN ENERGY WILL CHANGE OUR FUTURE?

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, hosted a school visit for the awareness of "How Green Energy Will Change Our Future." The awareness talks exposed school students to global green energy solutions, climate change mitigation strategies, and the importance of sustainable technologies. It aligned with SDG 07, specifically Target 7.2, by promoting broader public awareness of renewable energy integration and Target 7.4, by facilitating access to clean energy research and innovation in an educational setting.



### 04 RENEWABLE ENERGY



## ACTIVITY 09: HAND-DRAWN POSTER COMPETITION

**Organized By:  
Theme 04 Team**



### CERTIFICATE OF APPRECIATION

This certificate is presented to

**MUHAMMAD ALI HASSAN**

for participating in,  
**HAND DRAWN POSTER COMPETITION**  
at CUST in collaboration of Green Youth Movement Club with  
Directorate of Sustainability and Environment,  
Theme: "Renewable Energy for a Sustainable Future"

Engr. Suleman Khan  
Representative from ECE

Dr. Noor Muhammad Khan  
HOD ECE

### CERTIFICATE OF APPRECIATION

This certificate is presented to

**GULFAM HAIDER**

for participating in,  
**HAND DRAWN POSTER COMPETITION**  
at CUST in collaboration of Green Youth Movement Club with  
Directorate of Sustainability and Environment,  
Theme: "Renewable Energy for a Sustainable Future"

Engr. Suleman Khan  
Representative from ECE

Dr. Noor Muhammad Khan  
HOD ECE

### CERTIFICATE OF APPRECIATION

This certificate is presented to

**ZARYAB TANVEER**

for participating in,  
**HAND DRAWN POSTER COMPETITION**  
at CUST in collaboration of Green Youth Movement Club with  
Directorate of Sustainability and Environment,  
Theme: "Renewable Energy for a Sustainable Future"

Engr. Suleman Khan  
Representative from ECE

Dr. Noor Muhammad Khan  
HOD ECE

The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized a Hand-Drawn Poster Competition under the theme "Renewable Energy for a Sustainable Future." The event aimed to raise awareness and spark creativity among students regarding clean and renewable energy. Participants illustrated sources such as solar, wind, and hydro energy. This initiative directly supported SDG 07, specifically Target 7.1, by fostering understanding of the need for universal access to modern and reliable energy services, and Target 7.2, by promoting the role of renewables in the global energy mix. Each poster was evaluated on creativity, originality, and relevance, and e-certificates were distributed to acknowledge the participants' contributions.



04 RENEWABLE  
ENERGY



## ACTIVITY 10: STUDENT SURVEY - RENEWABLE ENERGY

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized an awareness survey among school students to assess their understanding of clean energy and SDG 07. The survey featured multiple-choice and opinion-based questions, engaging students to reflect on their knowledge, behavior, and attitudes towards sustainable energy. The activity contributed to Target 7.1, by educating students on the significance of universal energy access; Target 7.2, by promoting the shift towards renewable energy in public awareness; and Target 7.5, by facilitating outreach and energy education in a developing country context.





**04** RENEWABLE  
ENERGY



### ACTIVITY 11: STUDY VISIT - EXPLORING THE ENERGY BACKBONE OF CUST

**Organized By:**  
Theme 04 Team



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, conducted an educational study visit titled "Exploring the Energy Backbone of CUST." Students were given an in-depth tour of the university's 1MW solar power setup, energy-efficient infrastructure, HT/LT panels, inverters, and backup generator systems. The visit provided students with practical exposure to power generation, load distribution, and power factor correction. This event effectively supported Target 7.1 by highlighting access to reliable and modern energy, Target 7.3 by demonstrating improvements in energy efficiency, and Target 7.4 by providing access to real-world applications of clean energy technologies.



04 RENEWABLE  
ENERGY



## ACTIVITY 12: SEMINAR ON ROOFTOP SOLAR INSTALLATIONS DESIGNING

**Organized By:**  
**Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized a lab seminar titled “Designing Rooftop Solar Installations.” The session introduced students to the technical and practical aspects of solar energy, including panel orientation, inverters, net metering, and maintenance. Demonstrations and group discussions enhanced understanding of rooftop systems. The session aligned with SDG 07, specifically Target 7.2, by promoting renewable energy awareness, and Target 7.4, by increasing access to clean energy technology in an educational context.

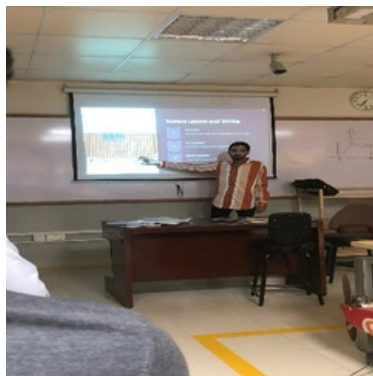


**04** RENEWABLE  
ENERGY



### ACTIVITY 13: SEMINAR ON UNDERSTANDING SMALL WIND TURBINES

**Organized By:  
Theme 04 Team**



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, conducted an insightful lab discussion titled “Understanding Small Wind Turbines.” The session provided a platform for students to explore the core components of wind turbines, their role in energy generation, optimal site selection strategies, and the practical challenges faced in real-world applications. It directly supported Sustainable Development Goal (SDG) 07, particularly Target 7.1, by promoting awareness of affordable, reliable energy solutions, and Target 7.2, by encouraging the adoption and understanding of renewable wind energy systems as a viable alternative for future energy needs.





04 RENEWABLE  
ENERGY



## ACTIVITY 14: SUSTAINABLE STROKES- ART FOR ENERGY AND WELL-BEING

Organized By:  
Theme 04 Team



The Department of Psychology, in collaboration with the GYM Club and the Directorate of Sustainability and Environment (DSE), organized “Sustainable Strokes – Art for Energy & Well-being,” a powerful art exhibition aimed at raising awareness around mental health and sustainability. The students showcased thought-provoking posters and paintings that explored emotional well-being, social challenges, and the role of clean energy in promoting a healthier world. The exhibition offered a unique blend of creativity and consciousness, with several artworks illustrating the connection between renewable energy and human well-being. By bridging the gap between artistic expression and environmental advocacy, the event advanced SDG 07 (Target 7.2 – increasing awareness of renewable energy through innovative, creative channels).





# THEME 05: ECO- TOURISM



## LIST OF ACTIVITIES

| SR. NO. | ACTIVITY TITLE                                                          |
|---------|-------------------------------------------------------------------------|
| 1       | Eco Hike Swat Valley: Promoting Eco-Tourism and Environmental Awareness |
| 2       | EcoExplore : Malam Jabba                                                |
| 3       | Anti littering Campaign                                                 |
| 4       | Eco-Hike Adventure                                                      |
| 5       | Park / Zoo Visit                                                        |
| 6       | Photography Competition                                                 |
| 7       | Climate on Trial – Eco Tourism Drive on Campus                          |
| 8       | School Outreach Program                                                 |





**05** ECO-TOURISM



### ACTIVITY 01:

### ECO HIKE SWAT VALLEY: PROMOTING ECO-TOURISM AND ENVIRONMENTAL AWARENESS

**Organized By:**  
**Theme 05 Team**



An Eco Hike Adventure in Swat Valley under Theme 5: Eco-Tourism was organized to promote environmental awareness, physical wellness, and responsible engagement with natural landscapes among students. The activity allowed participants to explore the region's natural beauty while learning the importance of sustainable tourism practices and ecosystem conservation. Aligned with SDG 13 (Climate Action), it highlighted the need to protect fragile mountain environments and encouraged low-impact, responsible travel behaviors. The experience fostered appreciation for biodiversity and inspired students to adopt more sustainable lifestyles, reinforcing the role of eco-tourism in promoting environmental stewardship and long-term ecological balance.



05 ECO-TOURISM



### ACTIVITY 02:

### ECOEXPLORE : MALAM JABBA

**Organized By:**  
**Theme 05 Team**



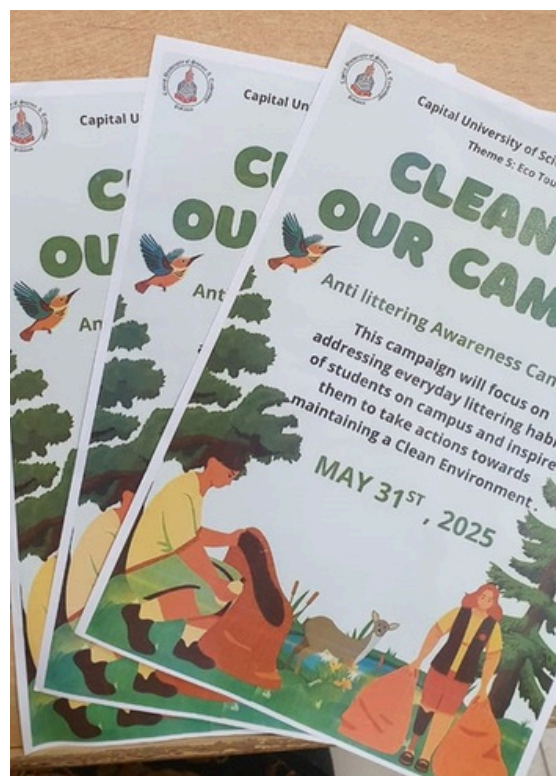
EcoExplore Malam Jabba, organized under Theme 5: Eco-Tourism, was a sustainability-focused educational trip aimed at promoting responsible travel, environmental awareness, and appreciation of Pakistan's natural heritage. Held in Malam Jabba, Swat Valley, the activity allowed participants to experience its scenic alpine landscapes while learning eco-friendly practices aligned with the Sustainable Development Goals. The initiative emphasized minimizing ecological footprints and encouraged responsible tourism behaviors such as waste reduction, plastic avoidance, resource conservation, and respect for natural environments. Aligned with SDG 13: Climate Action, it highlighted how sustainable travel practices contribute to climate protection and environmental preservation, reinforcing the role of eco-tourism in safeguarding natural ecosystems and promoting long-term environmental sustainability.





## ACTIVITY 03: ANTI LITTERING CAMPAIGN

**Organized By:**  
**Theme 05 Team**



The Eco-Tourism Club launched an Anti-Littering Campaign to promote cleanliness and responsible waste disposal across the university campus. Eye-catching posters were placed on notice boards, and club members engaged with students through talks, conversations, and eco-tips to raise awareness about the negative impact of littering. The campaign aimed to cultivate environmental stewardship and promote sustainable behaviors, aligning with SDG 15: Life on Land, by protecting terrestrial ecosystems and preserving biodiversity on campus. By encouraging proper waste disposal, the club contributed to a cleaner physical environment and fostered a sense of responsibility within the university community.



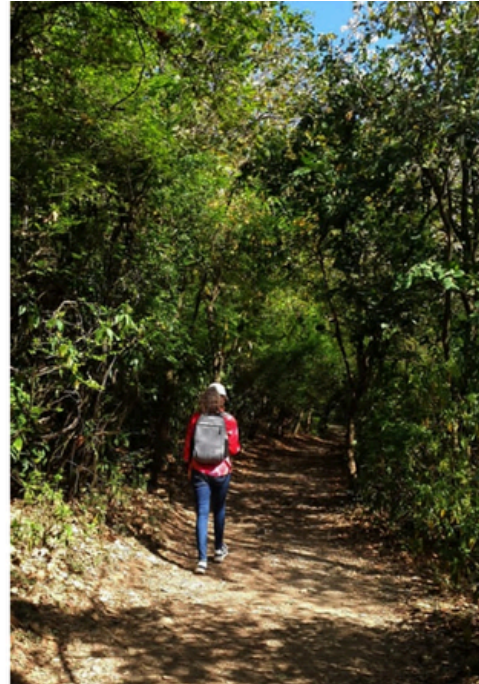


05 ECO-TOURISM



### ACTIVITY 04: ECO-HIKE ADVENTURE

**Organized By:**  
**Theme 05 Team**



GYM Club organized a refreshing Eco Hike Adventure on Trail 5, promoting physical wellness and environmental awareness among students. The hike aimed to reconnect students with nature, offering a refreshing escape from routine academic life and encouraging appreciation for the natural world. The experience not only revitalized their minds and bodies but also deepened their sense of environmental responsibility. This activity was directly aligned with SDG 13: Climate Action, as it fostered a greater understanding of the need to protect natural environments and highlighted the impact of climate change on ecological balance. The hike inspired participants to adopt more sustainable habits and support initiatives contributing to a healthier planet. The event concluded with positive reflections from the students, who expressed gratitude for the opportunity to engage with nature and emphasized the importance of continuing such eco-conscious activities in the future.



05 ECO-TOURISM



### ACTIVITY 05:

### PARK / ZOO VISIT

**Organized By:**  
**Theme 05 Team**



The Eco-Tourism Club's visit to a local zoo and park was a unique opportunity to promote environmental awareness and responsible tourism. Through guided tours and interactions with park staff, members gained valuable insights into wildlife conservation and the importance of protected areas in preserving biodiversity. The experience highlighted the crucial role that eco-tourism can play in supporting conservation efforts, funding habitat preservation, and educating the public about the importance of coexisting with nature. By witnessing conservation in action, club members developed a deeper understanding of the interconnectedness of ecosystems and the need to protect and restore terrestrial habitats. This experience aligned with Sustainable Development Goal 15: Life on Land, emphasizing the importance of conserving biodiversity, halting deforestation, and preventing the extinction of threatened species. The visit reinforced the idea that responsible eco-tourism practices can have a positive impact on the environment and contribute to a more sustainable future.



05 ECO-TOURISM



### ACTIVITY 06:

### PHOTOGRAPHY COMPETITION

**Organized By:**  
**Theme 05 Team**



Theme 5's "Seasons of Earth" photography competition saw enthusiastic participation from students, showcasing their creative vision and skills through stunning campus scenery captures. A diverse range of entries featured majestic trees, vibrant flowers, serene water bodies, and breathtaking sunsets. A panel of judges evaluated submissions based on composition, creativity, and technical skills. The top three winners were selected for their powerful storytelling, environmental message, and visual impact, receiving certificates for their talent and commitment. The competition promoted awareness about preserving the environment, aligning with SDG 13: Climate Action, and encouraging appreciation for nature's beauty. The winners' photographs were showcased on the university's social media platforms, making the event a huge success in highlighting student talent and creativity.





05 ECO-TOURISM



## ACTIVITY 07: CLIMATE ON TRIAL - ECO TOURISM DRIVE ON CAMPUS

**Organized By:**  
Theme 05 Team



The Eco-Tourism Club launched an eco-tourism awareness drive on campus with a bilingual courtroom simulation drama, "Climate on Trial: Green Governance for South Asia's Tomorrow." The event, organized in collaboration with the GYM Clubs and Directorate of Student Engagement, aimed to raise awareness about environmental degradation and advocate for sustainable practices. Students actively participated as performers, witnesses, and audience members, engaging in a dramatized depiction of the environmental crisis. The simulation featured Planet Earth as the plaintiff and industrialists as defendants, with key witnesses testifying to pollution, climate change, and ecological imbalance. The judges delivered a symbolic verdict, calling for environmental accountability, adoption of clean technologies, and collective responsibility toward climate protection. The event emphasized the vital role of youth in driving climate action and encouraged universities to become centers of sustainability-driven thought and behavior.



05 ECO-TOURISM



## ACTIVITY 08:

## SCHOOL OUTREACH PROGRAM

**Organized By:**  
**Theme 05 Team**



The hygiene session was not only about personal care but also aimed to raise awareness of environmental responsibility. By highlighting the importance of using water wisely and keeping surroundings clean, the activity connected everyday habits to broader environmental goals, supporting the principles of eco-tourism. Engaging with children through fun activities like face painting helped build trust and connection, encouraging them to take an interest in their communities and the environment. This outreach plays a role in inspiring the next generation of eco-conscious individuals who may one day lead or participate in sustainable tourism and conservation initiatives.

