



CAPITAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
DIRECTORATE OF SUSTAINABILITY AND ENVIRONMENT



SUSTAINABILITY REPORT 2023-2024



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OUR MISSION



Mission

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



Vision

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.



Strategy

- Setting and Infrastructure
- Energy and Climate Change
- Water Conservation
- Research and Education
- Waste Minimization
- Transportation



DIRECTOR'S MESSAGE



Going green and sustainability has become the core value in campus action. The Directorate of Sustainability & Environment initiative is aligned with the Sustainable Development Goals of the United Nation to promote environmental sustainability within the CUST.

Efficient resources conservation using unique sustainable solutions is essential to social prosperity. The Directorate of Sustainability & Environment 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

DSE-CUST INTRODUCTION

Capital University of Science and Technology significantly contributes to implementing sustainable practices to address environmental issues. Front-runners of every department are collaborating for making the environment clean and green starting from engineering to business and social sciences.

The aim is to encourage individuals to play a pivotal role in making the world a safer place for future generations through recycling initiatives and participating in free planting. CUST has been comprehensively engaged in extensive research, innovative teaching, and concrete environmental sustainability to ensure the availability and conservation of resources for future generations. Going green and sustainability has become the core value in campus action. The University is consistently making efficient investments in and taking significant steps for sustainability at the operational and programmatic levels.

The Directorate of Sustainability and Environment (DSE) is inclined to create sustainable strategies and leads those strategies and initiatives on campus physical infrastructure and programs in energy and climate, water conservation, transportation, and research and education. DSE empowers ambitious partnerships and collaborations that play a pivotal role in making the world sustainable.

All the university departments are integrated with DSE to ensure effective communication and collaborative works with them for the execution of sustainability-specific goals. The DSE focused key areas are communication, training, and education; assessments, evaluation, and reporting; events, campaigns, and talk; organizational effectiveness and infrastructural planning support. DSE emphasizes an economic model that focuses on the efficient use of resources and maximizing the product's life cycle.

DSE-CUST COMMITTEE



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Department of Psychology



Ms. Saeeda Ibrahim
Department of English

DSE-CUST POLICIES



Capital University of Science and Technology focuses on the going green and sustainability strategy to bring campus eco-system at equilibrium and ensure efficient utilization of resources. CUST has become a pillar and custodian in embedding sustainability in higher education through its dedicated teaching faculty.

Students conduct comprehensive research to develop unique environment friendly solutions for making sustainable change. The going green policy also incorporates directing and inspecting human actions to take useful measures for mitigating adverse impacts on the natural resources and biophysical environment.

Currently, DSE is engaged in directing Waste Management, Recycling, and infrastructure that are aligned with its 6 key themes of sustainability.

RECYCLING POLICY

Capital University of Science and Technology seeks maximizing the recycling of waste materials a top priority. The recycling policy is inclined towards substantial pathways embedded with **4 R's of reduce, reuse, recycle, and rethink**. The waste management team uses a paper shredder which helps the institute to handle its paper waste effectively.

Trash bins with labels of Plastics, Paper, Metals, etc., are placed within the campus, so the students and faculty can help the recycling team by pre-categorizing the waste to make the recycling process more efficient, fast, and easy. Students also steered a cleaning drive at CUST where everyone gathered and picked up garbage and other plastic-related non-recyclable items and disposed them off. Not only did this make the university a cleaner place but it also spread awareness among the students and teaching staff to support our cause.



The recycling program also caught the attention of print and electronic media including Radio Pakistan and the director of DSE was invited to live broadcast her message on a live show at Radio Pakistan. The radio broadcasts have remarkably helped to spread the message of change which calls on the masses to become responsible members of society.

WASTE MANAGEMENT POLICY

Capital University of Science and Technology is committed to making sustainable environmental practices through effective resource management. The directorate of Sustainability and Environment (DSE) has proposed a waste management policy to contribute to the circular economy by eliminating toxic, organic, and inorganic waste from the campus. It's a pivotal initiative taken by DSE to significantly contribute to the SDGs of the United Nation at a local and regional level.

Solid waste plays a key role as a lot of waste ends up in the oceans and landfills which is causing problems for everyone by creating greenhouse gases (GHG) and increasing carbon emissions. Pakistan generates almost 48 million tons of solid waste per year which is increasing by the growth rate of almost 2.4% while the collection rate is only 60% which is also not being dumped properly.

DSE-CUST is engaged in using multiple social media platforms such as Twitter, Instagram, and Facebook to create awareness not only among people on campus but also among individuals of twin cities for making the environment clean and green. This social media campaign is actively running with the chant of "Pick up-Clean up" with an aim of saving the Earth together. CUST waste management policy targets to adopt a 'Base to zero approach', achieve a recycling rate of 70 percent by 2023, and eliminate waste production by 10 percent by 2023 across the campus.



CUST PEDESTRIAN PATH POLICY

Capital University of Science and Technology seeks to establish the Pedestrian path policy to accommodate pedestrians on campus and hence reinforcing the network. The master plan of campus has designed a framework by which the university can achieve the crucial research and academic mission of the institute while enhancing the life quality on campus, absorbing growth, and creating sustainable ethics. A keystone strategy of this pedestrian path framework is circulation and access within the campus. This policy is designed around an “integrated plan to circulation” that depends on well-utilized pedestrian networks.

Besides reducing on-campus vehicular traffic, means of active transportation even diminish greenhouse gas emissions and contribute to healthy lifestyles. CUST has performed premeditated engineering and design efforts for supporting the pedestrian network viability on campus as a top priority. The university is facilitating and supporting on-campus pedestrian network through the following engineering and design efforts:



- At the design phase of the pedestrian path plan affecting paths and transportation on campus, engineering teams have identified ways to meet the pedestrians' needs. The Pedestrian Counseling Committee regularly reviews and provides input to pertain to pedestrians.
- As CUST is centrally located at Expressway so, the Pedestrian Counseling Committee has reinforced connectivity of bike routes outside campus premises through demarcating and evaluating connection points from Islamabad Expressway bike routes to entry points on campus.

The vehicle parking area on campus is developed and strengthened through car lanes, signage, shared lane markings, and bike boulevards.

CUST PARKING AREA POLICY

Capital University of Science and Technology has designed a parking area policy to ensure efficient utilization of limited parking resources. All university faculty and students on the campus have to register their vehicles and must show a valid parking permit. Citations will lead to various Penalties and Sanctions such as fines and warnings. To mitigate vehicle traffic on the campus, CUST has restricted entry of private vehicles to the campus except for extraordinary circumstances. Also, parking spaces designated separately for faculty and students have been removed.

This policy aims to institute a formula of assigning parking permits grounded on the requestor's role on longevity and campus. The university seeks to close off-campus central areas to cars for cutting down on congestion. It will lead to a pedestrian-friendly core campus. The university will use parking lots in the following ways:



- Cars must be parked merely in cars racks reserved by the university.
- Motorbikes must be parked only in bikes racks allotted by the university. They shall not be parked on sidewalks or lawns.
- Buses must be parked separately in buses racks to avoid vehicle congestion.
- Vehicles inadequately parked might be subject to the removal of a locking device.
- All vehicle operators intending to avail the campus parking facilities are required to register themselves for a parking permit to permanently affix to the vehicle.

CUST DAY CARE CENTER POLICY

Capital University of Science and Technology has taken a substantial step to facilitate employees and female students by offering daycare facility at the campus. This dedicated daycare access has significantly diminished the child-care burden on mothers.

The facility seemed to be quite beneficial especially during COVID days in which front-liners were engaged in serving the humanity on campus and enrolled their kids in the daycare centre. CUST Day Care Centre welcomes a nurturing, safe, stable, and inclusive environment where children can learn and grow

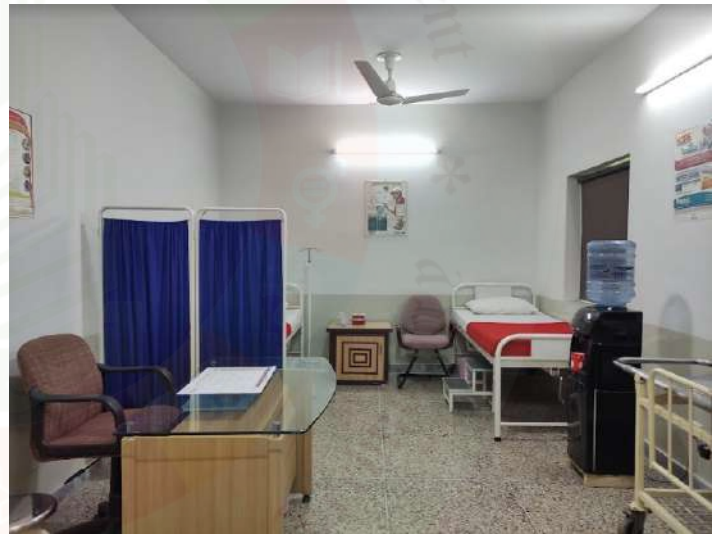


CUST WELL-BEING POLICY

Capital University of Science and Technology has created a dedicated hub for the well-being of students and faculty.

The wellbeing centre offers an array of welfare services to support students and staff throughout their university hours.

The purpose is to provide psychological, social, and therapeutic support to the CUST community seeking health services. Wellbeing hub has a pharmacy and a full-time general practitioner responsible for healthcare assistance.



CUST CONSTRUCTION & RENOVATION POLICY

Capital University of Science and Technology promotes stewardship to plan, design, construct and maintain the physical environment of the university. The purpose is to become sustainable, aesthetic, enduring, and contextual to protect the safety and welfare of the university community. The construction and renovation policy of CUST include:

- Improvement, alterations, or renovation of existing facilities within the campus.
- Modifications in utility systems such as heating, plumbing, air conditioning, gas, air, electrical, etc.
- Installation of major equipment that requires utility connections.
- Window coverings, floor coverings, furnishings, and interior decorating.
- Program planning, development, and facility design.
- Cost estimates or feasibility studies on construction and renovation.

Only authorized contractors are hired for such services to ensure compliance with campus standards. All vendors/contractors commence the contractual work after signing a contract for campus projects. Despite the contract amount, CUST management can request bids on a particular construction project. This policy seeks risk mitigation for the CUST associated with campus renovation, construction, and property maintenance as well.

CAPITAL UNIVERSITY'S ACHIEVEMENTS

The Capital University of Science and Technology (CUST) is now ranked among the top 300 universities in the world and among the top eleven universities in Pakistan. According to the UI GreenMetric World University Ranking 2023, CUST is the 276th most sustainable university in the world, out of a total of 1183 universities worldwide. Mean while Capital University ranks 7th overall in Pakistan and 1st in Pakistan in Climate Change parameter.

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.

Among the important performance indicators were CUST's campus setting and infrastructure, as well as its research and development efforts, its energy and climate change efforts, waste management practices, water conservation strategy, and the carbon footprint of its transportation operations. The Directorate of Sustainability and Environment (DSE) at CUST is taking substantial steps to promote responsible action and incorporate sustainability on campus to achieve the Sustainable Development Goals (SDGs) established by the United Nations.



IMPLEMENTATION OF THE SUSTAINABLE DEVELOPMENT GOALS





“SUMMARY OF SDGS EVENTS”

SR. NO.	SDG TITLE	NO. OF EVENTS
1	SDG 01: NO POVERTY	05
2	SDG 02: ZERO HUNGER	04
3	SDG 03: GOOD HEALTH AND WELL BEING	34
4	SDG 04: QUALITY EDUCATION	25
5	SDG 05: GENDER EQUALITY	05
6	SDG 06: CLEAN WATER AND SANITATION	06
7	SDG 07: AFFORDABLE AND CLEAN ENERGY	08
8	SDG 08: DECENT WORK AND ECONOMIC GROWTH	14
9	SDG 09: INDUSTRY, INNOVATION, AND INFRASTRUCTURE	16
10	SDG 10: REDUCED INEQUALITIES	09
11	SDG 11: SUSTAINABLE CITIES AND COMMUNITIES	10
12	SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION	14
13	SDG 13: CLIMATE ACTION	18
14	SDG 14: LIFE BELOW WATER	05
15	SDG 15: LIFE ON LAND	18
16	SDG 16: PEACE, JUSTICE, AND INSTITUTIONS	09
17	SDG 17: PARTNERSHIPS FOR THE GOALS	04
18	DSE GENERAL EVENTS	12
	TOTAL NO. OF EVENTS	216



SDG 01: NO POVERTY





LIST OF ACTIVITIES

- | | | | |
|-----------|--|-----------|--|
| 01 | International Poverty Eradication Day awareness walk | 04 | Awareness Walk on “No Poverty” |
| 02 | Empowering Communities for Inclusive Sustainable Development | 05 | Story Telling: An Initiative towards Community |
| 03 | Awareness Radio Broadcast | | |

ACTIVITY 01

“INTERNATIONAL POVERTY ERADICATION DAY AWARENESS WALK”

**Organized By:
The Department of
Management Sciences,
DSE**



The Awareness Walk served as a significant educational initiative, enabling students to understand that all men and women, particularly the poor and the vulnerable, have equal rights to economic resources, aligning with the target 1.4.

This activity encapsulates the essence of the awareness walk, emphasizing its alignment with Sustainable Development Goal 1. The active participation of faculty members and students in the walk reflects a commitment to creating awareness about poverty and fostering a sense of responsibility in the community and to highlight our shared responsibility in creating a more equitable future.

ACTIVITY 02

“EMPOWERING COMMUNITIES FOR INCLUSIVE SUSTAINABLE DEVELOPMENT”

**Organized By:
The Department of
Management Sciences,
DSE**



The workshop featured Ms. Mushahid Hussain from Youth Impact, who emphasized the transformative role of youth in building resilient communities according to the target 1.5. The collaborative atmosphere fostered discussions on potential initiatives, strengthening participants' commitment to building sustainable communities and how to build the resilience of the poor and reduce their exposure and vulnerability to economic, social and environmental shocks and disasters.

The outcome reflected heightened empowerment and responsibility, contributing to SDG 1's objective of ending poverty. The event highlighted the importance of informed community engagement in achieving sustainable development and poverty alleviation.

ACTIVITY 03

“AWARENESS RADIO BROADCAST”

**Organized By:
Directorate of
Sustainability and
Environment**



Led by a student panel from the management sciences department, the radio broadcast focused on SDG 1 - No Poverty. Local manifestations of poverty, tied to inadequate education and economic disparities, were discussed alongside successful initiatives, emphasizing community-driven development projects and fair wage practices in accordance with the target 1.a. The panel underscored the role of businesses in mitigating economic inequality.

The positive outcome lies in increased awareness and knowledge dissemination, inspiring individuals to consider their roles in addressing poverty locally and globally.

ACTIVITY 04

AWARENESS WALK ON “NO POVERTY”

**Organized By:
The Department of
Management Sciences,
DSE**



The Sustainable Development Goal 1 (SDG 1) aims to eradicate poverty in all its forms, a fundamental step towards achieving global sustainable development. The organizing team of this Campaign actively did fieldwork and approached different students handing them brochures. The handouts that were distributed had 18 different points which educated them that some people in society does not have access to basic services and how a student can do their part in the fight to eradicate poverty. (1.4.1)

The significance of addressing poverty within the context of sustainable development cannot be overstated. As future leaders and active citizens, students must recognize their potential impact and engage in meaningful actions to combat poverty.

ACTIVITY 05

“STORY TELLING: AN INITIATIVE TOWARDS COMMUNITY”

**Organized By:
The Department of
Psychology, DSE**



The event featured documentaries highlighting the conditions in developed and underdeveloped areas, focusing on marginalized groups like slum dwellers, beggars, and transgender individuals. The primary aim was to raise awareness about the challenges faced by these communities and emphasize the relevance of the United Nations Sustainable Development Goals (UNSDGs) to local issues in Pakistan in accordance with the target 1.4.

The event, attended by DSE members and Psychology faculty, provided a platform for meaningful discussions on sustainability and inclusivity. It demonstrated the importance of aligning global goals with local challenges, fostering empathy, and encouraging active participation in sustainable development efforts.



SDG 02: ZERO HUNGER





LIST OF ACTIVITIES

01 Sustainable Food Safety Management

03 World Food Safety Day

02 Roundtable Discussion on Zero Waste Day

04 Painting and Picnic Circle on "World Food Day"

ACTIVITY 01

“SUSTAINABLE FOOD SAFETY MANAGEMENT”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



A Hands-on Workshop on Sustainable Food Safety Management has been held on the Sustainable Development Goal 2. Students from multiple universities took part in it. According to the target 2.4, the purpose of the workshop was to cover sustainable food production, the principle of food safety management, biological and physical and chemical hazards to prevent food contamination while processing and packaging food, emphasizing on the 4C's of food safety: clean, cross contamination, chill and cook. The ceremony was concluded by a closing remark given by dean of Bioinformatics and Biosciences (Dr. Sahar Afzal), followed by the certificate distribution ceremony.



ACTIVITY 02

“ROUNDTABLE DISCUSSION ON ZERO WASTE DAY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



On Zero Waste Day, the Knowledge Dissemination Club, Genix Society hosted a dynamic Roundtable Discussion featuring Ms. Summayya Ijaz, an environmentalist. The Roundtable discussion on Zero Waste Day aimed to raise awareness about the importance of waste reduction and sustainable practices. Its objectives included fostering dialogue among stakeholders, sharing best practices, and promoting innovative solutions for waste management and to additionally reduce the hunger across nation, in compliance with the target 2.1.

Targeted towards policymakers, environmentalists, businesses, and the general public, the discussion highlighted the urgent need to transition towards a zero- waste society.



ACTIVITY 03

“WORLD FOOD SAFETY DAY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



Environmental Psychology students celebrated World Food Safety Day in the university cafe to raise awareness about food safety practices, and how food wasting affects malnourished children targeting the goal 2.2. Activities included information booths with pamphlets, quizzes, games, and whiteboards for student participation. The event successfully increased awareness, promoted behavioral changes, and fostered community engagement in safe food handling and consumption. This initiative contributed to a safer and healthier campus environment, emphasizing the importance of ongoing efforts in food safety.

ACTIVITY 04

PAINTING AND PICNIC CIRCLE ON "WORLD FOOD DAY"

**Organized By:
The Department of
Management Sciences,
CALC, DSE**



This inclusive initiative united students across the university, emphasizing the global imperative of SDG 1 - No Poverty. The event aimed to foster cultural understanding, promote responsible food practices, nurture community inclusivity, inspire artistic expression, and raise awareness about food security and sustainability. (2.2)

The 'Picnic & Paint Circle' not only met its objectives but also left a lasting impact, instilling values of compassion and global citizenship. By integrating SDG 1 principles, the event exemplified the potential for impactful initiatives in addressing global challenges.



SDG 03:

GOOD HEALTH AND WELL-BEING



3 GOOD HEALTH AND WELL-BEING



LIST OF ACTIVITIES

- | | | | |
|-----------|---|-----------|--|
| 01 | Seminar on Road Safety by Red Crescent Organization | 11 | World Diabetes Day |
| 02 | Seminar on World Diabetes Awareness Day | 12 | World's Heart Day and awareness desk placement |
| 03 | Breast Cancer Awareness Day | 13 | Mental Health as a Global Human Right |
| 04 | Blood Grouping Activity | 14 | Role of SLP in Executive Function Disorder |
| 05 | Breast Cancer Awareness Day Seminar and Pink Ribbon Ceremony | 15 | Time Management Workshop |
| 06 | Awareness of Malaria and Dengue at Islamabad Model College for Boys | 16 | Universal Health Coverage Day: A Pledge for a Healthier Future |
| 07 | Pink Eye Infections Awareness Presentation at Daar-e-Arkam School Visit | 17 | The Silent Addiction: Examining the Subtle Normalization of Nicotine Pouches |
| 08 | Guess the Drug Name by Emojis and Puzzles Games and Phrase Competition | 18 | From Screens to Dreams: Rediscovering Real-World Connections |
| 09 | Games Desks: World Mental Health Day | 19 | Psychological First Aid |
| 10 | Seminar on Mental Health | 20 | Mental Health Awareness-Development Milestone |

3 GOOD HEALTH AND WELL-BEING



LIST OF ACTIVITIES

- | | |
|---|--|
| 21 World Immunization Week Social Media Campaign | 28 Mental health Awareness- Burnout and Compassion Fatigue |
| 22 Thalassemia Day Blood Donation | 29 Training of trainers in collaboration with WHO |
| 23 Thalassemia Day Awareness Walk | 30 A seminar on Physopreneurship |
| 24 Thalassemia Day Seminar | 31 Tremor Suppressor |
| 25 Anti-Drug and Anti-Tobacco Awareness Walk | 32 Design and Implementation of Wearable Device for Tremors Suppression |
| 26 Awareness on World Drug Day | 33 Health and Safety in Oil Refineries |
| 27 A seminar on Health and Safety Training | 34 Occupational Health and Safety |

ACTIVITY 01

"ROAD SAFETY BY RED CRESENT ORGANIZATION"

**Organized By:
Directorate of
Sustainability and
Environment,
Volunteer in Service**



The Directorate of Sustainability Environment (DSE) and Volunteer in Service (VIS) co-organized a two-day event, featuring a Road Safety Seminar by the Swiss-based 'Red Crescent Society' in Pakistan. The aim of this activity to enlighten the target 3.6 which says halve the number of deaths and injuries from road traffic accidents.

This organization is affiliated with the International Federation of Red Cross. The event highlighted their volunteer work, including aid during the Turkish earthquake. On behalf of Director DSE, Engr. Sajjad Khan Niazi Secretary presented an acknowledgment, underscoring the event's importance. It served as an informative platform for promoting road safety awareness.

ACTIVITY 02

“WORLD DIABETES AWARENESS DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



World Diabetes Awareness Day was celebrated by the Pharma Spark Society of faculty of pharmacy in compliance with target 3.d for early warning, risk reduction and the management of the disease. For this awareness campaign, the posters and banners were designed and made by the students. The banners were displayed in the university a day before the event for recognition by the university fellows. A video message regarding this event was also recorded by the interested students and faculty members in their respective available slots. The students and faculty members actively participated in the event activities which made the event a success.

ACTIVITY 03

“BREAST CANCER AWARENESS DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



CUST organized a Breast Cancer Awareness Day event in collaboration with Shaukat Khanum Cancer Memorial Hospital in compliance with target 3.d for early warning, risk reduction and the management of the disease. The event featured awareness desks providing essential information about breast cancer, dispelling myths and distributing brochures and pink ribbons. The Vice Chancellor, Muhammad Mansoor Ahmed, and faculty members participated, emphasizing community-driven support. An awareness walks from A to J block, led by respected faculty members, symbolized unity and strength, concluding with a group photo. The involvement of esteemed faculty members, led by Dr. Muzaffar Abbas, underscored collaborative efforts significance.

ACTIVITY 04

“BLOOD GROUPING ACTIVITY”

**Organized By:
The Faculty of Pharmacy,
DSE**



Students from diverse university departments gathered to discover their blood types. Not only the students participated actively, but we also had the honor of several esteemed faculty members checking their blood groups. In addition to the blood grouping activity, participants on duty also collected data from students who expressed their willingness to donate blood in the future. This thoughtful initiative allows us to create a database of potential donors, ensuring that we can rely on these willing students in our time of need which is one of the strategies to manage health risk in Pakistan (3.d). Additionally, the event fostered a sense of unity and social responsibility among the participants.

ACTIVITY 05

"BREAST CANCER AWARENESS DAY SEMINAR AND PINK RIBBON CEREMONY"

**Organized By:
The Faculty of Pharmacy,
DSE**



Breast Cancer Awareness Day is a significant annual observance dedicated to raising awareness about breast cancer, the most common cancer among women worldwide. Capital university of science and technology celebrated breast cancer awareness day on 6th October 2023 with the collaborative efforts of Social Welfare Club, Pharma Spark Society and GENIX society and putting the joint efforts in spreading the awareness on breast cancer. The volunteers distributed the pink ribbons among the faculty members and students of Pharmacy and Biosciences department and stood in solidarity with the cancer patients by encouraging early detection, advocating for better treatment options. (3.d)

ACTIVITY 06

“AWARENESS OF MALARIA AND DENGUE”

**Organized By:
The Faculty of Pharmacy,
DSE**



Under the mentorship of Sir Israr, Batch 223 orchestrated an enlightening event at Islamabad Model College for Boys, Rawalpindi on the 24th of October. The team went above and beyond, designing eye-catching posters and informative pamphlets to educate college students about the disease as per target 3.3.3. The students, in particular, were actively engaged, and as a token of encouragement, pamphlets and chocolates were distributed among them, boosting their spirits.

ACTIVITY 07

“PINK EYE INFECTIONS AWARENESS”

**Organized By:
The Faculty of Pharmacy,
DSE**



The visit to Daar e Arkam School was a successful educational activity. The students actively engaged with the presentation, and the teachers and staff were satisfied with the content. The interactive activity was well-received, and students learned about pink eye infections, their causes, symptoms, prevention, and treatment in compliance with target 3.d for early warning, risk reduction and the management of the disease. The team also received feedback from the students, enhancing their own knowledge and public speaking skills. This activity aimed to educate and engage the students. The team discussed the prevention and treatment of pink eye infections. A feedback session was held was also held.

ACTIVITY 08

“GUESS THE DRUG NAME BY EMOJIS AND PUZZLES GAMES AND PHRASE COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



In this event, participants were tasked with deciphering drug names using a clever combination of emojis and intricate puzzles. This challenge required not only pharmaceutical knowledge but also a keen eye for detail and lateral thinking as per target 3.c substantial training and retention of the health workforce. The second part of the event featured a Phrase Competition, where participants were encouraged to craft inspiring and thought-provoking quotes related to World Pharmacist Day. The winners of both segments were awarded an array of exciting prizes, acknowledging their dedication.

ACTIVITY 09

“GAMES DESKS: WORLD MENTAL HEALTH DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



According to the target 3.4.2, Pharma Spark Society had celebrated World Mental Health Day in the university with the objectives of raising awareness of mental health issues and mobilizing efforts in support of better mental health collaborated by its Sports and Social Welfare club. The event was organized in front of J block. Games naming GAME OF EMOTIONS and DICE BREAKER were played by the teachers and students of university. Moreover, Green ribbons were distributed among the students as they are symbols of mental health awareness.

ACTIVITY 10

“SEMINAR ON MENTAL HEALTH”

**Organized By:
The Faculty of Pharmacy,
DSE**



Capital University of Science and Technology celebrated mental health day with the devoted efforts of Social Welfare Club, in collaboration with Sports Club, Pharma Spark Society in compliance with target 3.4.2. Our esteemed guest Speaker, Sir Khurram Alvi who is a renowned member of Youth Club, Pakistan and has served to enlighten many hearts through his glorious words took the stage and brightened up the environment with the most remarkable session on mental health issues and their workable solutions. Overall, the event was a successful one and it served as a reminder that mental health is as important as physical health and that it should not be taken for granted.

ACTIVITY 11

“WORLD DIABETES DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



World Diabetes Day was celebrated at CUST with a comprehensive event aimed at raising awareness and providing essential healthcare services to our community in compliance with target 3.d for early warning, risk reduction and the management of the disease. The highlight of the event was a free medical camp by Chughtai Lab offering lab diagnostics related to diabetes, and Patient Advocacy Desks by students of Pharma Spark Society under the domain of Faculty of Pharmacy. For accomplishment of such an integral event in Capital University of Science and Technology, Pharma Spark Society, ORIC CUST and Carrier Services Office along with Chughtai Lab collaborated. Patient Advocacy aimed to empower participants with knowledge to make informed decisions about their health.



ACTIVITY 12

“WORLD HEART DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



World Heart Day is a global campaign set up to raise awareness about cardiovascular health and promote heart-healthy habits in accordance with the target 3.4.1. Celebrated on September 29th every year, it aims to encourage individuals, families, and communities to take proactive steps towards supporting a healthy heart. The visitors were entertained with all the necessary heart-health information and provided with free checkups of pulse rate, which directly reflected the condition of their heart's health. Day highlighted the importance of regular check-screensings to monitor heart health.

ACTIVITY 13

“MENTAL HEALTH AS A GLOBAL HUMAN RIGHT”

**Organized By:
The Department of
Psychology, DSE**



Annum Tanveer, Senior Lecturer, Department of Psychology was invited as a guest speaker to a one-day seminar on ‘World Mental Health Day’ organized jointly by Department of Behavioral Sciences, S3H and Center for Counselling and Career Advisory, NUST, Islamabad. The speaker explained what it means for mental health to be considered a universal human right and why this concept is crucial for individuals and society. The speaker also encouraged an open discussion on common stigmas and misconceptions surrounding mental health and how they can impede the realization of this right. Disparities were highlighted in access to mental healthcare and strategies were discussed for improving access for all individuals, regardless of their background or socioeconomic status. (3.4)

ACTIVITY 14

"ROLE OF SLP IN EXECUTIVE FUNCTION DISORDER"

**Organized By:
The Department of
Psychology, DSE**



Department of Psychology organized a seminar entitled "Role of SLP in Executive Function Disorder" under the supervision of Ms. Irum Noureen. The guest speaker was Ms. Iza Tufail. The seminar aimed to guide the students regarding speech- language pathology aligning with the target 3.d indicating for early warning, risk reduction, and management of health risks. It aimed at providing students with an opportunity to understand the executive function disorder, its symptoms, and causes. Also, to recognize how this disorder affects the speech and language of a child. Ms. Iza Tufail discussed all aspects in detail she elaborated on how speech and language problems affect the daily functioning of a child.

ACTIVITY 15

“TIME MANAGEMENT WORKSHOP”

**Organized By:
The Department of
Psychology, DSE**



The Department of Psychology organized two workshops on time management for its 7th and 8th semester students of batch. The resource person M. Zeeshan Iltaf, Senior Lecturer Psychology helped the audience understand the concept of time managements and its relationship with stress to discuss target 3.d which says strengthen the capacity for early warning, risk reduction, and health risk management. Students were taught skills how time management can be done practically and what the different components of time management are.

ACTIVITY 16

“UNIVERSAL HEALTH COVERAGE DAY: A PLEDGE FOR A HEALTHIER FUTURE”

**Organized By:
The Faculty of Pharmacy,
DSE**



In a collaborative effort, the Faculty of Pharmacy at CUST, in partnership with the Directorate of Sustainability and Environment (DSE) and Pharma Spark Society, proudly organized a social media campaign to mark Universal Health Coverage Day for early warnings for health risks, reduction and management of those risks (3.d). With a shared commitment to fostering a healthier future, the campaign aimed to empower change and promote awareness on the importance of quality healthcare for all. Across various social media platforms, including students and faculty WhatsApp groups, Facebook, and Instagram pages, the campaign garnered widespread attention. Posts featured vibrant graphics, inspiring messages, and the official hashtags.

ACTIVITY 17

“THE SILENT ADDICTION: EXAMINING THE SUBTLE NORMALIZATION OF NICOTINE POUCHES”

**Organized By:
The Department of
Psychology, DSE**



The department of Psychology organizes a seminar on awareness regarding nicotine pouches at university level with the collaboration of Directorate of sustainability and environment. Ms. Sarah Sheikh, Master Trainer at WHO and A clinical psychologist at Al Shakoor Foundation, delivered seminar regarding the subtle normalization of nicotine pouches among university students in compliance with target 3.5. She told different ways to overcome this trend. This awareness talk was directly linked with sustainable development goal 3. At the end of session certificate was being provided to Ms. Sarah Sheikh by DSE faculty member Ms. Uzma Mushtaq and by Mr. Muhammad Naeem.

ACTIVITY 18

"FROM SCREENS TO DREAMS: REDISCOVERING REAL-WORLD CONNECTIONS (DIGITAL DETOXIFICATION)"

**Organized By:
The Department of
Psychology, DSE**



The Department of Psychology organized a seminar on digital detoxification for university students. The resource person Ms. Wajeeha Zafar, Clinical Psychologist as well as a media influencer, helped the audience understand the concept of digital detoxification and its relationship with mental health to enlighten target 3.4. Emphasizing the correlation between digital control and a sense of freedom, Ms. Wajeeha Zafar highlighted the importance of a balanced approach to screentime.

ACTIVITY 19

“PSYCHOLOGICAL FIRST AID”

**Organized By:
The Department of
Psychology, DSE**



Asima Munawar, Clinical Psychologist and Lecturer, Department of Psychology, CUST was invited as a guest speaker to a 2-hour workshop on ‘Psychological First Aid’ organized by Department of Psychology, CUST. The speaker stressed on theoretical and practical demonstration of PFA and how it aims to reduce stress symptoms and assist in a healthy recovery following a traumatic event, natural disaster, public health emergency, or even a personal crisis. In the end, practical exercises on hypothetical case scenarios and role play were conducted to facilitate a comprehensive understanding. (3.4)

ACTIVITY 20

“MENTAL HEALTH AWARENESS DEVELOPMENTAL MILESTONES”

**Organized By:
The Department of
Psychology, DSE**



With respect to the department's strategic pillar initiative - conducting seminars in local schools and universities, Annum Tanweer, Senior Lecturer, Department of Psychology was invited as a guest speaker to a one-day seminar on Mental health awareness focused on early childhood development and milestones. The objective was to equip budding psychologists with the skills to recognize and monitor developmental milestones using a simple milestones checklist to know what skills are typical/atypical at children's ages and what to expect next. (3.4)

ACTIVITY 21

"WORLD IMMUNIZATION WEEK SOCIAL MEDIA CAMPAIGN"

**Organized By:
The Faculty of Pharmacy,
DSE**



World Immunization Week is an annual global public health campaign that is celebrated during last week of April from 24th to 30th April. Pharma Spark Society under supervision of Faculty of Pharmacy organized a social media campaign on occasion of World Immunization Week to highlight significance of vaccination and its role in maintaining public health. Various social media platforms including Facebook, WhatsApp, Instagram, TikTok, and Twitter were used to disseminate key messages about immunization throughout the week and attracted wide range of audience. (3.8)

ACTIVITY 22

“THALASSEMIA DAY- BLOOD DONATION CAMP”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event aimed to address the critical shortage of blood supply in hospitals and medical centers. Volunteers from both Pharma Spark Society and Sundas Foundation worked tirelessly to set up registration desks, medical examination stations, and comfortable resting areas for donors. The camp started at 10 am and it was overwhelmed by a steady stream of blood donors which included both the university students and faculty members. The camp concluded at 4:30 pm and over 100 blood bags were collected. This activity targeted SDG-3 as it raised awareness among people regarding importance and benefits of blood donation as every blood drop serves as life for those in need of blood. (3.d.1)



ACTIVITY 23

“THALASSEMIA DAY AWARENESS WALK”

**Organized By:
The Faculty of Pharmacy,
DSE**



This walk aimed at SDG 3: Ensuring healthy lives and promoting well-being for all at all ages, specifically targeting 3.4: Reduce one-third premature mortality from non-communicable diseases (NCDs) through prevention and treatment and promote mental health and well-being. Thalassemia, a genetic blood disorder, is a significant contributor to premature mortality and morbidity worldwide. By raising awareness and promoting early diagnosis and treatment, this walk aimed to contribute to the reduction of Thalassemia-related deaths and improve the quality of life for individuals living with this condition. (3.d.1)



ACTIVITY 24

“THALASSEMIA DAY AWARENESS SEMINAR”

**Organized By:
The Faculty of Pharmacy,
DSE**



The session shed light on psychological and social impact of Thalassemia on patients and their families. Sir Aftab addressed emotional toll of chronic illness and importance of providing support systems for both patients and caregivers. Furthermore, he discussed the ongoing research on gene therapy, a promising approach that holds the potential to permanently correct the genetic defect responsible for Thalassemia. This seminar targeted SDG-3 which ensures good health and well-being of patients by raising awareness among people regarding thalassemia rather than considering it a taboo and to provide the patients with necessary support and care to fight the disease. (3.d.1)

ACTIVITY 25

“ANTI-DRUG AND TOBACCO-AWARENESS WALK”

**Organized By:
The Faculty of Pharmacy,
DSE**



This event is well aligned with SDG 3: Ensuring healthy lives and promoting well-being for all at all ages. Specifically, it aligns with target 3.5: Strengthening the prevention and treatment of substance abuse, including narcotic drug abuse, and target 3. a: Strengthening the implementation of the World Health Organization’s Framework Convention on Tobacco Control in all countries. The walk aimed to promote a healthy and drug-free lifestyle to educate individuals, especially youth, about the risks and consequences of drug and tobacco use, and to encourage them to make informed choices. Additionally, the walk targeted to promote community support and resources for individuals struggling with addiction and to advocate for policies and programs that support drug prevention and treatment.



ACTIVITY 26

"AWARENESS ON WORLD DRUG DAY"

**Organized By:
The Department of
Biosciences and
Bioinformatics, DSE**

BEYOND THE SMOKE: A New Life Awaits

Smoking is a leading cause of preventable death worldwide. Quitting smoking is one of the best decisions you can make for your health and well-being.

Every year tobacco usage causes
**8.7 Million
Deaths**



Health risks associated with smoking include:

- Lung cancer
- Heart diseases
- Respiratory diseases (e.g., COPD)
- Increased risk of infections

Strategies and tips for quitting smoking:

- Seek support from friends/family
- Set a quit date and make a plan
- Use nicotine replacement therapy
- Avoid triggers

The Knowledge Dissemination Club, Genix organized awareness on World Drug Day, by posters on 26th June, 2024. The event aimed to raise awareness about the consequences of drug abuse aligning with target 3.5. the seminar also indicated physical and psychological harm, overdose deaths and societal problems. The posters depicted the irrational use of drugs, their harmful effects and the strategies to control it. It serves the Sustainable Development Goal 3 (Good Health and Wellbeing), addressing the significance of physical and psychological health.

ACTIVITY 27

“HEALTH & SAFETY TRAININGS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Health & Safety committee departmental In Charge – Accounting and Finance Department, Ms. Saddaf Adalat, and members of departmental committee Dr. Iftikhar Ali Janjua & Dr. Anam Tariq & Batch advisor Dr. Zeeshan Ahmed coordinate with all batches of BSAF and give an awareness on health and safety to all students. Explained the need for H&S training and also explain general rules regarding health & safety. Fill that undertaking form for our record. Agenda points include purpose and significance of training and prime focus was on four types of hazards (Earthquake, Fire, Terrorist activity and flood) can face by students. (3.d)

ACTIVITY 28

"MENTAL HEALTH AWARENESS- BURNOUT AND COMPASSION FATIGUE"

**Organized By:
The Department of
Psychology, DSE**



Annum Tanweer, Senior Lecturer in the Department of Psychology, was a guest speaker at a seminar on mental health awareness focused on compassion fatigue and burnout for teachers of children with special needs in accordance with the target 3.4. The seminar aimed to equip teachers with knowledge and strategies to recognize, prevent, and manage burnout, fostering a supportive work environment. The workshop emphasized the significance of mental health, work-life balance, and effective coping strategies, and was praised by the Down Syndrome Club for its impact, aligning with the department's strategic pillar on expanding civic engagement.

ACTIVITY 29

“TRAINING OF TRAINERS, COLLABORATION WITH WHO”

**Organized By:
The Department of
Psychology, DSE**



With reference to the Training of Trainers initiative under Strategic Pillar -6, expanding civic engagement, workshop in collaboration with WHO, Pakistan was held at Department of Psychology, Capital University of Science and Technology. The trainer, Ms. Maimoona Saadi, Technical officer, WHO conducted a training on Psychological First Aid, where faculty was equipped with skills to reduce stress symptoms and assist in a healthy recovery following a traumatic event, natural disaster, public health emergency, or even a personal crisis. In addition, NRPU- HEC funded workshop on “Guided self-help intervention” for enhancing mental health and wellbeing was also conducted. (3.4)

ACTIVITY 30

“PSYCHOPRENEURSHIP”

**Organized By:
The Department of
Psychology, DSE**

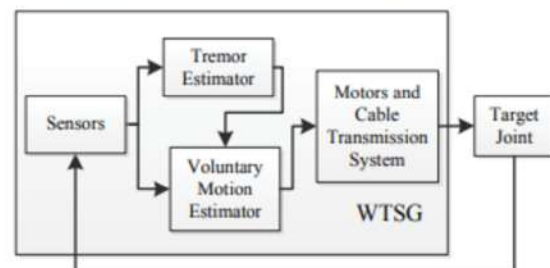


The Department of Psychology organized a lecture series on Psychopreneurship tailored for psychology students of semester 8. This session was facilitated by Dr. Israr-ul-Haq, Consultant Psychiatrist at KRL Hospital. This seminar was aimed to furnish students with indispensable skills and insights vital for their career aligning with the target 3.c.1. Psychopreneurship is an innovative and interdisciplinary field that merges psychological principles with entrepreneurial practices. He also highlighted how Psychopreneurs, or psychology-driven entrepreneurs, utilize their understanding of human behavior, cognition, and emotion to foster successful and sustainable businesses.

ACTIVITY 31

“TREMER SUPPRESSOR”

**Organized By:
The Directorate of
Sustainability and
Environment**



In compliance with the target 3.b.3, Wearable tremor suppression device was designed. Stabilizing hand motions, the tremor suppression device immediately enhances the health and well-being of those with ailments like Parkinson's disease. This improves their general quality of life and mental health by empowering them to carry out daily duties more successfully and independently. It needs good health and wellbeing to be able to live happy and fruitful lives. Tremor suppression device are one example of a creative solution that can help close the gap and enhance health in areas where access to healthcare services may be limited.

ACTIVITY 32

“DESIGN AND IMPLEMENTATION OF WEARABLE DEVICE FOR TREMORS SUPPRESSION”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project aims to develop an innovative wearable device that effectively alleviates the debilitating effects of tremors in individuals affected by conditions like Parkinson's disease. The device will leverage advanced sensor technology and motion analysis algorithms to detect and respond to tremors in real-time, minimizing their disruptive impact on the user's daily activities and overall quality of life. The project helps to overcome a neglected tropical disease effect. (3.3.5)

ACTIVITY 33

“HEALTH AND SAFETY IN OIL REFINERIES”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This report explores occupational health and safety (OHS) in the oil refinery sector, highlighting the complex measures implemented to safeguard worker well-being amidst inherent hazards. It examines case studies of major incidents, analyzes root causes and impacts, and outlines a framework for preventive and mitigative actions aligning with the target 3.d which says strengthen the capacity for early warning, risk reduction and management. The report also discusses the alignment of OHS practices with the UN Sustainable Development Goals. The report examines two major incidents: The Amuay Refinery explosion (2012) and the Buncefield oil storage terminal incident (2005). These case studies reveal systemic issues, such as inadequate maintenance and safety protocol failures, serving as a foundation for developing preventive measures.



ACTIVITY 34

“OCCUPATIONAL HEALTH AND SAFETY”



**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report covers the following key points:

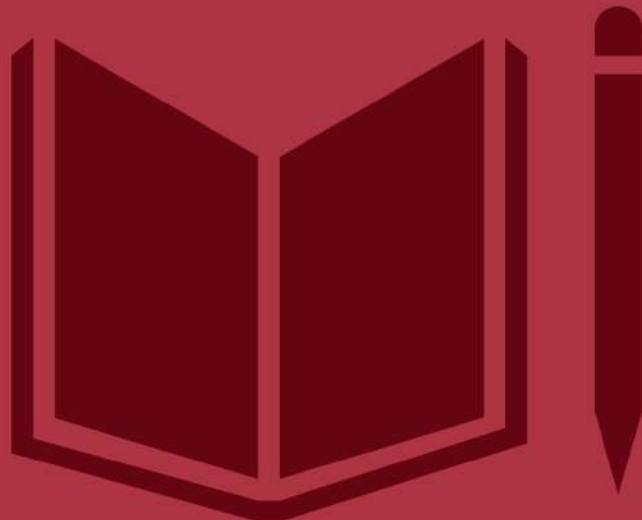
- Introduction to mining and its various types.
- Health hazards in the mining industry, such as UV exposure, chemical hazards, and coal dust, and the necessary safety measures to address them.
- Equipment and tools used in the mining industry, including excavators, dump trucks, dozers, water trucks, graders, and safety tools.
- Real-life case studies of mining accidents and hazards, such as the Monongah Mine Disaster in the United States and the Khyber-Pakhtunkhwa Disaster in Pakistan aligning with the target 3.d which says strengthen the capacity for early warning, risk reduction and management.





SDG 04:

QUALITY EDUCATION



4 QUALITY EDUCATION



LIST OF ACTIVITIES

- | | | | |
|-----------|--|-----------|--|
| 01 | Enhancing Faculty Skills: Endnote training of Faculty of Pharmacy | 14 | One Day Trip to Islamabad Wildlife Management Board |
| 02 | Ashra-e-Seerat-Un Nabi (PBUH) Competition | 15 | A seminar on Enhancing Graduate Employability |
| 03 | International Peace Day | 16 | A seminar on Job Hunting |
| 04 | Outcome-Based Education (OBE) System in Pharmacy | 17 | A seminar on an Insight into Pakistan Stock market |
| 05 | Unveiling the Mechanics of Power Lab: A Comprehensive Workshop | 18 | An Industrial Tour to SECP |
| 06 | Twin cities Allama Muhammad Iqbal Bilingual Declamation Contest 2023 | 19 | A seminar on “What Comes After Degree” How can you be truly valuable |
| 07 | World Teacher’s Day Celebration | 20 | A seminar on Emotional Intelligence |
| 08 | Character Day | 21 | Mastering your CV |
| 09 | Pakistan Day Videography Competition | 22 | A Seminar on Conflict Management |
| 10 | Culture Day | 23 | Policy on Protection Against Sexual Harassment in Higher Education Institution |
| 11 | Calligraphy Workshop | 24 | A Seminar on Seeking Opportunities Abroad |
| 12 | International Women’s Day | 25 | Seminar and Walk by ANF |
| 13 | Cocurricular and Extra Curricular Activities-A Fine Balance | | |

ACTIVITY 01

“ENHANCING FACULTY SKILLS:
END NOTE TRAINING OF
FACULTY OF PHARMACY”

**Organized By:
The Faculty of Pharmacy,
DSE**



Mr. Ahsan, Lecturer Faculty of Pharmacy (FOP), conducted a comprehensive EndNote training session tailored for the faculty members, (FOP), Capital University of Science and Technology (CUST). This training aimed to support the faculty in achieving their targets for the academic year 2023-2024 by enhancing their skills in utilizing this reference management software effectively. The training was well-received and proved highly informative, equipping the faculty members with the knowledge and skills necessary to efficiently manage references and streamline research processes using this valuable tool.



ACTIVITY 02

“ASHRA-E-SEERAT UN NABI (PBUH) COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event was organized by the literary club with the aim to provide a platform to students to showcase their affection with Prophet Muhammad (PBUH). The event was comprised of Debate Competition, Naat Competition, and Quiz competition, and Model competition. At the end of all these competitions, position holders were rewarded with shields and all the participants with certificates

ACTIVITY 03

“INTERNATIONAL PEACE DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event featured Best Phrase Competition, where participants were encouraged to craft inspiring and thought-provoking quotes related to Peace Day. Participants with the winning quotations were provided with the certificates, for the top 3 best phrases. A variety of posters, raising National and International Problems were displayed, where the participants showed interest and support in the favor of Peace. The event was also a portrayal of Pakistan as a symbol of Peace through celebrating Peace Day, Green and White dress code and display of National Flag.

ACTIVITY 04

“OUTCOME BASED EDUCATION SYSTEM IN PHARMACY”

**Organized By:
The Faculty of Pharmacy,
DSE**



In an effort to enhance the quality of education within the Faculty of Pharmacy at CUST, a comprehensive training session on the implementation of Outcome-Based Education (OBE) in Pharmacy Education was conducted on 5th October, 2023. Dr. Muzzafar Abbas, Dean, FOP, led this pivotal session. Its overarching goal was to equip faculty members with a profound understanding of OBE principles, finely tuned to the unique demands of pharmacy education.



ACTIVITY 05

“UNVEILING THE MECHANICS OF POWER LAB: A COMPREHENSIVE WORKSHOP”

**Organized By:
The Faculty of Pharmacy,
DSE**



In an effort to enhance the quality of education within the Faculty of Pharmacy (FOP) at CUST, a comprehensive training session on "Unveiling the Mechanics of Power Lab: A Comprehensive Workshop" in Pharmacy Education was conducted. Ms. Komal Farooq and Mr. Ahsan Rafeeq, Lecturer FOP, led this pivotal session. Its overarching goal was to educate the faculty members about Power Lab. Ms. Komal Farooq conducted an instructive workshop on the practical utility and advantages of Power Lab.



ACTIVITY 06

“TWIN CITIES ALLAMA MUHAMMAD IQBAL BILINGUAL DECLAMATION CONTEST 2023”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event was organized by the literary club with the aim to provide a platform to students to showcase their affection with Allama Iqbal and share their thoughts regarding different topics through declamation. The declamation contest was in both Urdu and English language and students from different colleges and universities of twin cities (Rawalpindi and Islamabad) were invited.



ACTIVITY 07

“WORLD TEACHER’S DAY CELEBRATION”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event began with a heart warming tribute through poetry by the host. Following this, a special video presentation was played, it was to express gratitude and salute to teachers highlighting their significant role in a student’s journey. Afterward, Dean of Pharmacy, Dr. Muzaffar Abbas, was invited to the stage to share his thoughts and reflections. The event culminated with a joyous cake-cutting ceremony. It was a moment of unity, shared laughter, and a delicious treat, signifying the sweet bond between students and their teachers

ACTIVITY 08

“CHARACTER DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



The character day was successfully conducted for the whole day at the Capital University of Science and Technology (CUST). It was organized by the Pharma Spark society, Faculty of Pharmacy. The event aimed to provide the students relief from routine activities and enlighten some characters they like and enjoy with each other. In this activity, all the students were motivated to dress up like their favorite characters and act like them. The entire event was fun for students and they managed both classes and the activity simultaneously.



ACTIVITY 09

“PAKISTAN DAY VIDEOGRAPHY COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



Pharma Spark Society in collaboration with DSE orchestrated an inspiring Videography Competition titled "My Culture is Rich and Vibrant," commemorating Pakistan Day with subthemes ranging from Languages and Dresses to Landmarks and Food. The event provided a platform for students to showcase the diverse tapestry of Pakistani heritage. Participants demonstrated remarkable creativity and dedication, offering a kaleidoscope of perspectives on Pakistan's rich cultural mosaic. They captured the essence of Pakistani culture and celebrated its vibrant ethnic diversity.

ACTIVITY 10

“CULTURE DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



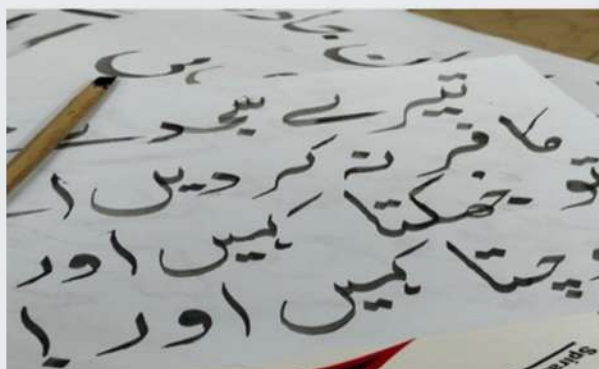
Pharma Spark Society in collaboration with DSE orchestrated a vibrant Cultural Day celebration. The event unfolded seamlessly, radiating the essence of cultural diversity and unity. This engaging activity served as a platform for students to express their profound love and appreciation for their cultural roots and homeland. Participants adorned themselves in colorful cultural attire, symbolizing their connection to their respective heritage. The event was further enriched by the presence of students donning the iconic green and white attire, proudly displaying their patriotism and solidarity with Pakistan.



ACTIVITY 11

“CALLIGRAPHY WORKSHOP”

**Organized By:
The Faculty of Pharmacy,
DSE**



Pharma Spark Society in collaboration with DSE orchestrated an enriching Calligraphy Workshop. This engaging workshop was meticulously crafted to ignite students' passion for the intricate art forms of Kufic and Nastaleeq calligraphy. Participants delved into the fundamentals of these scripts, mastering basic strokes and techniques throughout an immersive hour-long session. The workshop not only aimed to refine the calligraphy skills of attendees but also sought to cultivate a deeper appreciation for calligraphy as a cherished cultural heritage.



ACTIVITY 12

“INTERNATIONAL WOMEN’S DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



Pharma Spark Society in collaboration with DSE arranged a poignant celebration in honor of International Women's Day. This meaningful activity was crafted with the noble aim of highlighting the invaluable contributions of women to society while championing their empowerment across social, economic, cultural, and political spheres. Students engaged in various activities designed to amplify the voices and achievements of women. Culture of inclusivity and gender equality, empowering students to recognize and advocate for the rights and dignity of women.



ACTIVITY 13

“CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES-A FINE BALANCE”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



Personality Grooming Club and GENIX organized an interactive session for students in the first and second semesters. Syeda Wardah Noor, an alumna, accompanied by a panel of active GENIX members. The session commenced with the recitation of the Holy Quran, followed by the guest's insights into balancing GPA and co-curricular activities for self-grooming and scholarship opportunities. GENIX panel members also shared their experiences on time management, self-analysis, and grooming, fostering a healthy university life among students. Dr. Syeda Marriam Bakhtiar, Head of Bioinformatics & Biosciences, imparted words of wisdom on maximizing university experiences.



ACTIVITY 14

“ONE DAY TRIP TO ISLAMABAD WILD LIFE MANAGEMENT BOARD”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



The Department of Bioinformatics and Biosciences, GENIX Society organized a "One Day Trip to Islamabad Wildlife Management Board," which included trekking on Margalla Hills Track-5. The journey was filled with fun and memories for both students and faculty members. During the trip, students, accompanied by faculty members, hiked Margalla Hills Track-5, unveiling nature's marvels along the way. At the Islamabad Wildlife Management Board, they attended a lecture on biodiversity awareness and gained valuable field exposure.



ACTIVITY 15

“ENHANCING GRADUATE EMPLOYABILITY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



Department of Bioinformatics and Biosciences organized a seminar "Enhancing Graduate Employability" under the supervision of Prof. Dr. Shaukat Iqbal with guest speaker Mr. Talha Aazar. The event aimed to equip students with skills and strategies to excel in the job market post-graduation, with objectives including resume crafting, interview skills, and job market readiness. The seminar covered practical tips and real-world examples, providing valuable insights into the current job market trends and employer expectations.



ACTIVITY 16

“JOB HUNTING”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



Department of Bioinformatics and Biosciences, organized a seminar titled “Scholarship Opportunities by Opportunities Circle”. The aim of this session was to give insight to the students about scholarships available for fully funded exchange programs in an interactive discussion and address requirements for hunting scholarships, such as writing the statement of purpose, required documents and Job Opportunities. Mr. Idrees Qureshi, the CEO of Opportunities Circle was the guest speaker and Ms. Mobeen Nawaz was guest and Alumna of UGRAD. Dr. Syeda Marriam Bakhtiar,



ACTIVITY 17

“AN INSIGHT INTO PAKISTANI STOCK MARKET”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Department of Accounting and Finance organized a session themed “An Insight into Pakistani Stock Market”. The resource person was Ms. Rabia Mehreen, Visiting Lecturer, CUST. The session purpose was to give awareness on investment techniques in Pakistani Stock Market. Students were oriented towards the account opening, regulatory bodies of PSX. The do’s and don’ts of stock market investments, the types of stock to pick for trading was discussed.

ACTIVITY 18

“AN INDUSTRIAL TOUR TO SECP”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Society of Department of Accounting and Finance (SAFE) organized an Industrial Tour to Securities and Exchange Commission of Pakistan (SECP). The visit aimed to provide students with practical insights into the regulatory framework and operations of the financial sector. Participants were given a comprehensive tour of the SECP facilities and attended informative sessions led by industry experts. These sessions covered topics such as market regulation, corporate governance, and investor protection. The visit concluded with a Q&A session, allowing students to engage directly with professionals. Overall, the experience was enriching and educational for all attendees.



ACTIVITY 19

“WHAT COME AFTER
DEGREE” HOW CAN YOU
BE TRULY VALUABLE

**Organized By:
The Department of
Accounting and Finance,
DSE**



The Session was organized under the theme of “soft skill management” by Ms. Saddaf Adalat. It was an interactive session and proved to be a great source of knowledge for the participants in their personal and as well as professional life.



ACTIVITY 20

“EMOTIONAL INTELLIGENCE”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Session themed focuses on important outcomes were appended below:

- The ability to understand, use, and manage your own emotions in positive ways to relieve stress, and empathize with others,
- Communicate effectively
- Learn from the past.
- Stay hopeful.
- Take care of yourself.
- Take action.
- Overcome challenges and defuse conflict.



ACTIVITY 21

“MASTERING YOUR CV: CRAFTING A WINNING RESUME FOR CAREER SUCCESS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Department of Accounting and Finance organized a session themed “Mastering your CV: Crafting a winning resume for Career Success”. The resource person was Ms. Javeria Khalid Lecturer, CUST. The session purpose is to give awareness on “CV resume building: the first step towards leading your first job”. A resume is a brief, concise document that presents you to the prospective employer. The resume markets your skills, accomplishments and experiences for employment, admission to graduate school, and consideration for a scholarship or fellowship.



ACTIVITY 22

“CONFLICT MANAGEMENT”

**Organized By:
The Department of
Accounting and Finance,
DSE**



The session includes 3-step approach:

1. Self -Assessment
2. Understanding Others' styles
3. Effective Communication- Setting Boundaries

The seminar's aim was to train students' minds to gain awareness, reasoning, and conflict management on an individual and organizational level. This seminar was designed to polish and nurture the student's workplace communication skills, interpersonal skills, negotiation abilities, and many other skills necessary to carry out successful conflict resolutions. The aim of conflict management is to enhance learning and group outcomes, including effectiveness or performance in an organizational setting.

ACTIVITY 23

"POLICY ON PROTECTION AGAINST SEXUAL HARASSMENT IN HIGHER EDUCATION INSTITUTION"

**Organized By:
The Department of
Psychology, DSE**



The Department of Psychology organized a seminar titled "Policy on Protection Against Sexual Harassment in Higher Education Institutions". Led by Ms. Annum Tanveer and Ms. Asima Munawar, the seminar aimed to raise awareness about fundamental rights to work and study without fear of harassment. They provided insights into the nature of sexual harassment, relevant policies, and procedural steps for lodging complaints. The seminar covered documenting incidents, submitting complaints, ensuring privacy, and disciplinary actions.



ACTIVITY 24

“SEEKING OPPORTUNITIES ABROAD ”

**Organized By:
The Directorate of
Sustainability and
Environment**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a seminar on “Seeking Opportunities Abroad” for the students and alumni. The speaker invited was Mr. Talha Ahmed (Academic person). The seminar correlates with the objective of SDG 4-Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all, 8-Decent work. Following points were highlighted:

- Scholarships
- Important Document required for the process
- Steps to apply
- Fellowship



ACTIVITY 25

“SEMINAR AND WALK BY ANF”

**Organized By:
The Department of
Psychology, DSE**



The Psyverse Society of the Department of Psychology organized a "Talk & Walk" campaign in collaboration with the Anti-Narcotics Force (ANF) to raise awareness about drug abuse. The campaign aimed to educate the community about the dangers of drugs and encourage open discussions and collective action towards a drug-free society. The event included a presentation by Dr. Zara Kiran, who discussed types of drugs, their causes, and harmful effects, engaging students with visual aids. Participants created charts and banners with messages like "Say No to Drugs" and "Drug-Free Pakistan" and walked across the campus to spread the message.





SDG 05: GENDER EQUALITY





LIST OF ACTIVITIES

01 FM Talk on Women Empowerment

04 Policy on Protection Against Sexual Harassment in Higher Education Institution

02 Women Empowerment AwarenessActivity

05 Occupational Health and Safety

03 Story Telling: An Initiative towards Community

ACTIVITY 01

“FM TALK ON WOMEN EMPOWERMENT”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



FM talk on women empowerment featuring Dr. Syeda Mariam Bakhtiar, Head of the Department of Bioinformatics and Biosciences, and Ms. Shahgul. They discussed the importance of gender equality, education, and social support for women's advancement, stressing the need for an inclusive environment. The event celebrated women's resilience and achievements, emphasizing the on going need for collective action to promote gender equality. It served as a reminder to continue advocating for women's rights and creating opportunities for their success.

ACTIVITY 02

“WOMEN EMPOWERMENT AWARENESS ACTIVITY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



The Fine Arts and Literature Club, and Genix Society, set up an awareness desk to promote women's empowerment. Members engaged people passing by in conversations about gender equality and shared resources to inspire action. The activity served as a visible reminder of the ongoing efforts to empower women. By sparking conversations and sharing resources, encouraged reflection and action towards creating a more inclusive society.

ACTIVITY 03

“STORY TELLING: AN INITIATIVE TOWARDS COMMUNITY”

**Organized By:
The Department of
Psychology, DSE**



The event featured documentaries highlighting the conditions in developed and underdeveloped areas, focusing on marginalized groups like slum dwellers, beggars, and transgender individuals. The primary aim was to raise awareness about the challenges faced by these communities and emphasize the relevance of the United Nations Sustainable Development Goals (UNSDGs) to local issues in Pakistan.

The event, attended by DSE members and Psychology faculty, provided a platform for meaningful discussions on sustainability and inclusivity. It demonstrated the importance of aligning global goals with local challenges, fostering empathy, and encouraging active participation in sustainable development efforts.

ACTIVITY 04

"POLICY ON PROTECTION AGAINST SEXUAL HARASSMENT IN HIGHER EDUCATION INSTITUTION"

**Organized By:
The Department of
Psychology, DSE**



The Department of Psychology organized a seminar titled "Policy on Protection Against Sexual Harassment in Higher Education Institutions". Led by Ms. Annum Tanveer and Ms. Asima Munawar, the seminar aimed to raise awareness about fundamental rights to work and study without fear of harassment. They provided insights into the nature of sexual harassment, relevant policies, and procedural steps for lodging complaints. The seminar covered documenting incidents, submitting complaints, ensuring privacy, and disciplinary actions.

ACTIVITY 05

“OCCUPATIONAL HEALTH AND SAFETY”



**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report covers the following key points:

- Introduction to mining and its various types.
- Health hazards in the mining industry, such as UV exposure, chemical hazards, and coal dust, and the necessary safety measures to address them.
- Equipment and tools used in the mining industry, including excavators, dump trucks, dozers, water trucks, graders, and safety tools.
- Real-life case studies of mining accidents and hazards, such as the Monongah Mine Disaster in the United States and the Khyber-Pakhtunkhwa Disaster in Pakistan.



SDG 06: CLEAN WATER AND SANITATION



6

CLEAN WATER
AND SANITATION



LIST OF ACTIVITIES

01

Water filtration
Competition

04

Health and Safety in
Hydel Power Plants

02

Awareness campaign
on responsible water
consumption

05

Nuclear Power Plant

03

Occupational Health
and Safety

06

Themed activity on
“Green infrastructure”

ACTIVITY 01

“WATER FILTRATION COMPETITION”

**Organized By:
The Department of Civil
Engineering, DSE**



Water filtration competition was held in drawing lab of CUST. All the teams consisted of 3 members and their task was to create an optimal water filter. Each team was provided with an Imhoff cone assembly along with sand and different types of aggregates to use as layers in filtration. In the assessment water is passed down from the filtration plant to get rid of all impurities so when actual test is performed the impurities do not hinder the results of actual sample. The team whose filter provides the cleanest water wins at the end.



ACTIVITY 02

“AWARENESS CAMPAIGN ON RESPONSIBLE WATER CONSUMPTION”

**Organized By:
The Department of Civil
Engineering, DSE**



An awareness desk with posters was set up for the campaign with the aim of guiding and creating awareness, succeeded in engaging students from various departments. Participants were actively guided and informed about sustainable practices, with a focus on pivotal aspects of "Responsible Water Consumption". It spotlighted key practices such as water harvesting, the use of jet showers, cultivation of crops requiring less water, and the adoption of smart irrigation practices. This campaign was directly linked with SDG 6.



ACTIVITY 03

“OCCUPATIONAL HEALTH AND SAFETY”



**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report covers the following key points:

- Introduction to mining and its various types.
- Health hazards in the mining industry, such as UV exposure, chemical hazards, and coal dust, and the necessary safety measures to address them.
- Equipment and tools used in the mining industry, including excavators, dump trucks, dozers, water trucks, graders, and safety tools.
- Real-life case studies of mining accidents and hazards, such as the Monongah Mine Disaster in the United States and the Khyber-Pakhtunkhwa Disaster in Pakistan.



ACTIVITY 04

“HEALTH AND SAFETY IN HYDEL POWER PLANTS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



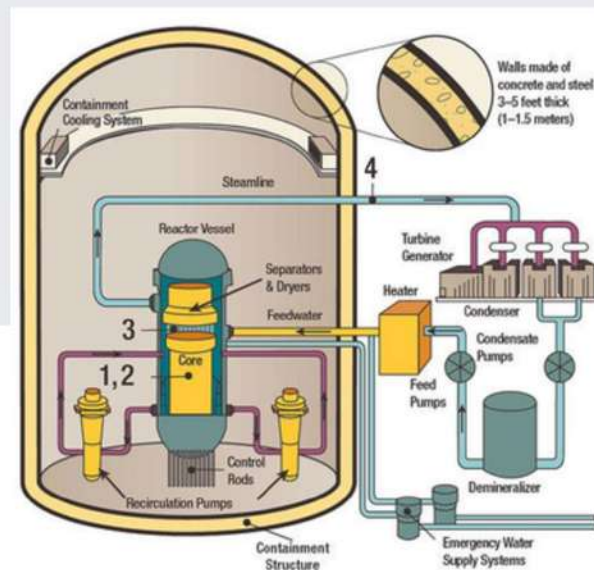
Hydropower is a clean and renewable energy source, but it also poses potential risks to workers, communities, and the environment. This report delves into the crucial aspects of health and safety in hydel power plants. It systematically identifies and assesses various hazards, ranging from physical and electrical to chemical and environmental. Implementing robust safety protocols and procedures, utilizing advanced technologies, and fostering a strong safety culture are emphasized as key strategies to mitigate these risks. The report also highlights the importance of regulatory compliance, community engagement, and environmental impact management for the sustainable operation of hydel power plants.



ACTIVITY 05

“NUCLEAR POWER PLANT”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report explains the working of nuclear power plants, highlighting the process of nuclear fission and the role of control rods, moderators, and coolants. It discusses the two main types of nuclear reactors: Pressurized Water Reactors (PWRs) and Boiling Water Reactors (BWRs).

The report concludes by emphasizing the safety and environmental benefits of nuclear power, underscoring its potential to provide clean, affordable, and reliable energy. It acknowledges the public's concerns but argues that the advantages of nuclear power outweigh the drawbacks, making it a viable option for sustainable energy production.



ACTIVITY 06

"A THEMED ACTIVITY ON GREEN INFRASTRUCTURE"

**Organized By:
The Directorate of
Sustainability and
Environment**

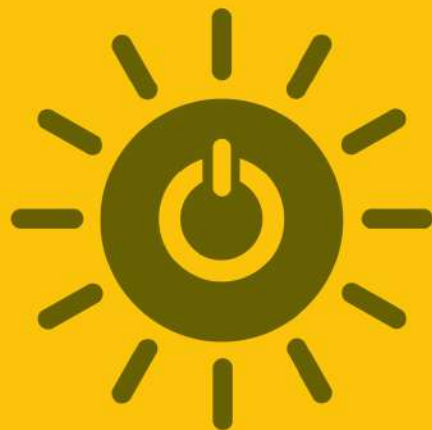


DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a themed activity on "Green Infrastructure." Themed desks adorned with informative posters and panaflex settings drew in students eager to explore the numerous facets of green infrastructure, from conservation areas to permeable pavements, emphasizing the crucial role these elements play in bolstering natural assets like wetlands, forests, and urban trees. As participants embarked on themed walks, the significance of nature-based solutions and engineered assets in mitigating climate change impacts resonated strongly, underscoring the event's alignment with SDG 6 focused on clean water and sanitation.





SDG 07: AFFORDABLE AND CLEAN ENERGY



7 AFFORDABLE AND CLEAN ENERGY



LIST OF ACTIVITIES

- | | | | |
|-----------|---|-----------|---|
| 01 | Workshop on Robotics | 05 | DC motor speed control |
| 02 | Stall at SDG Expo 2024 | 06 | Hazardous Material Management in the Chemical Industry (BASF) |
| 03 | Sumo war at NAMAL TECH EXPO | 07 | Health and Safety in Hydel Power Plants |
| 04 | Safety Guidelines regarding Grid Stations and electrical Industry | 08 | Nuclear Power Plant |

ACTIVITY 01

“WORKSHOP ON ROBOTICS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The Department of Electrical and Computer Engineering at Capital University of Science & Technology hosted a workshop on Robotics to enlighten participants about the significance of Robotics in today's world and how to integrate this technology into our lives. The session included a presentation of past accomplishments to boost participants' motivation, followed by a discussion and workshop on the potential societal benefits of Robotics as an affordable and environmentally friendly technology for everyday use. The workshop was aligned with the goal of “Ensuring access to affordable, reliable, sustainable, and modern energy for all” by 2030, and is positioned as a catalyst for innovation.



ACTIVITY 02

“SDGS EXPO 2024”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The Electrical and Computer Engineering Department at Capital University of Science & Technology hosted SDGs EXPO 2024. One of our team's targeted SDG was 7, so they displayed a project on Hybrid Solar Wind Energy. The display of their "Hybrid Solar Wind Energy" project garnered a lot of attention and interest from the attendees, including the chief guest. The in-depth discussions with the chief guest helped the team gain valuable insights and feedback on the project.



ACTIVITY 03

“SUMO WAR AT NAMALTECH EXPO 2024”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



Overall, it seems to have been a productive and successful day for our team, with their robotic creations performing well in the different competitions. The event's focus on robotics and automation can be linked to SDG 7 (Affordable and Clean Energy), as the development of efficient, energy-saving robotic systems can contribute to the transition to clean and sustainable energy sources.



ACTIVITY 04

“SAFETY GUIDELINES REGARDING GRID STATIONS AND ELECTRICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report discusses the importance and operations of grid stations, which are critical infrastructure for the transmission and distribution of electricity. Grid stations act as storage and transfer units, connecting power plants to homes and industries.

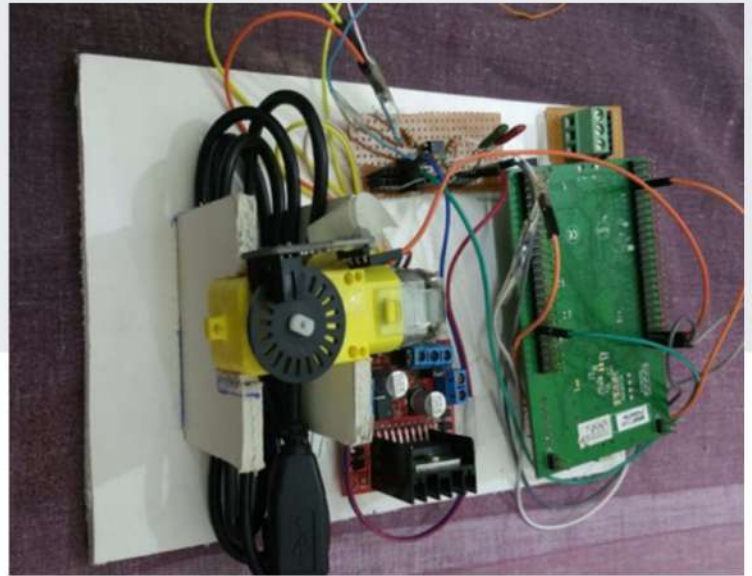
The report aligns the grid station operations with several SDG 07 affordable and clean energy.



ACTIVITY 05

“DC MOTOR SPEED CONTROL”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project implemented DC motor speed control using a digital Proportional-Integral-Derivative (PID) controller with Arduino. The PID controller regulated the motor speed by generating appropriate control signals based on the difference between desired and actual RPM. Experiments showed the digital PID controller provided faster response, reduced error, and improved stability compared to conventional methods. While the system demonstrated functionality, it had limitations in achieving the desired PWM and RPM values accurately. The project contributes to environmental sustainability by promoting energy-efficient motor control and user education on sustainable practices.

ACTIVITY 06

“HAZARDOUS MATERIAL MANAGEMENT IN THE CHEMICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



BASF is a chemical industry operating in Pakistan for over 50 years and it produces a wide range of chemicals like amines, solvents, resins, and glues. The project contributes to environmental sustainability by promoting affordable and clean energy (SDG 7).



ACTIVITY 07

“HEALTH AND SAFETY IN HYDEL POWER PLANTS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

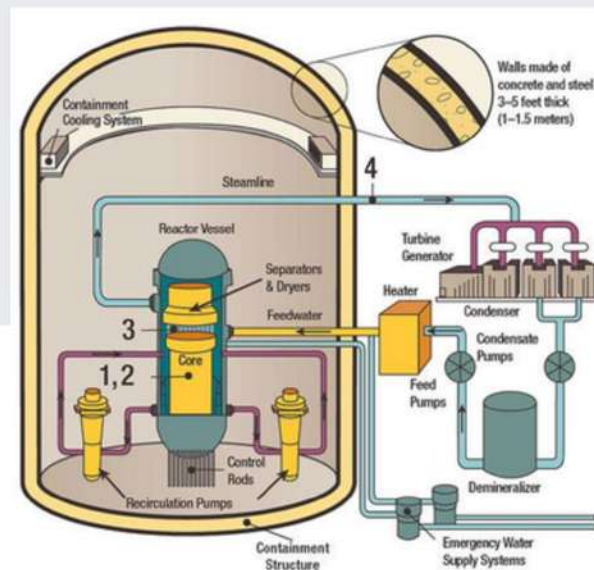


Hydropower is a clean and renewable energy source, but it also poses potential risks to workers, communities, and the environment. This report delves into the crucial aspects of health and safety in hydel power plants. It systematically identifies and assesses various hazards, ranging from physical and electrical to chemical and environmental. Implementing robust safety protocols and procedures, utilizing advanced technologies, and fostering a strong safety culture are emphasized as key strategies to mitigate these risks. The report also highlights the importance of regulatory compliance, community engagement, and environmental impact management for the sustainable operation of hydel power plants. By addressing these critical areas, this report aims to contribute to the development of a safer and more resilient hydropower industry.

ACTIVITY 08

“NUCLEAR POWER PLANT”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This project report provides an overview of nuclear power plants, their working, types of reactors, safety measures, and the impact on sustainable development. It discusses the case studies of the Chernobyl and Fukushima nuclear disasters, as well as the management of nuclear waste. The report aims to address the misconceptions about the health and safety aspects of nuclear power.

The report concludes by emphasizing the safety and environmental benefits of nuclear power, underscoring its potential to provide clean, affordable, and reliable energy. It acknowledges the public's concerns but argues that the advantages of nuclear power outweigh the drawbacks, making it a viable option for sustainable energy production.





SDG 08: DECENT WORK AND ECONOMIC GROWTH



8 DECENT WORK AND ECONOMIC GROWTH



LIST OF ACTIVITIES

- | | |
|--|--|
| 01 Workshop on QuickBooks | 08 Awareness Walk on Sustainability & Researching Renewable Resources |
| 02 Introduction of E-VIEWS | 09 A seminar on Enhancing Graduate Employability |
| 03 Resilience: Building Skills to Endure Hardships | 10 A seminar on an Insight into Pakistan Stock market |
| 04 Self-Management: Mastering Oneself is a True Power | 11 An Industrial Tour to SECP |
| 05 Ethics & Communication Skills | 12 An Industrial Tour to Jacaranda Family Club |
| 06 Role of Islamic Financial institutions in Economic Development | 13 A Seminar on Seeking Opportunities Abroad |
| 07 Zindigi Both Marketing Gala | 14 Forestry and Logging Operations |

ACTIVITY 01

“WORKSHOP ON QUICKBOOKS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



The world is short on jobs and social inequality is growing. Investing in education and training is an important strategy for promoting decent work and economic growth, as it can help to create more productive and efficient workers, increase employment opportunities, and improve living standards. Some benefits of this strategy include by investing in education and training, individuals can gain the skills and qualifications they need to find quality jobs. This can be particularly beneficial for unemployed people, who can use education and training to improve their employability and increase their chances of finding work. QuickBooks keeps track of your bills and expenses automatically.

ACTIVITY 02

“INTRODUCTION OF E-VIEWS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Dr. Jaleel Ahmad, HOD of Accounting & Finance telling students about E-views an Introductive Session & linking e-views (electronic views) with SDG 8 which emphasizes on Decent Work and Economic Growth. E-View scan facilitate collaboration and networking between individuals and organizations, enabling them to work together towards common objectives. So, by utilizing e-views, you can contribute to both goals by promoting economic opportunities and fostering partnerships

ACTIVITY 03

“RESILIENCE: BUILDING SKILLS TO ENDURE HARDSHIPS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



SDG 8 (Good Jobs and Economic Growth) Investing in education and training is a key strategy for promoting decent work and economic growth. By investing in education and training, individuals can gain the skills and qualifications they need to find quality jobs. Educated and trained workers are often more productive and efficient than those who are not. By investing in education and training, businesses and organizations can improve their productivity and competitiveness. Providing access to education and training programs: This can include funding for schools, universities, and vocational training programs.

ACTIVITY 04

“SELF-MANAGEMENT:
MASTERING ONESELF
IS A TRUE POWER”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Session-themed focuses on important outcomes: where that often think about leadership as something we do to, and for, others yet it always starts with us. Without this deep understanding of ourselves, we cannot be effective leaders or lead with confidence.

“It's our inner game and how as leaders we lead from the inside out.”

The trainer was Ms. Sadaf Zeb, Senior Lecturer, CUST. Overall, it was an interactive session and proved to be a great source of knowledge for the participants in their personal and professional life.

ACTIVITY 05

“ETHICS & COMMUNICATION SKILLS”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Session-themed focuses on Ethical communication refers to passing information between two parties in a manner that is accurate, truthful, and acceptable. Ethical communication values honesty, transparency, and respect when passing information. So, that the recipient will clearly understand what is going on. It was an interactive session and proved to be a great source of knowledge for the participants in their personal and as well as professional life. SDG 8 (Good Jobs and Economic Growth) Investing in education and training is a key strategy for promoting decent work and economic growth.

ACTIVITY 06

“ROLE OF ISLAMIC FINANCIAL INSTITUTIONS IN ECONOMIC DEVELOPMENT”

**Organized By:
The Department of
Accounting and Finance,
DSE**



The Session was organized by Ms. Saddaf Adalat for the students of BS Psychology of the 2nd semester studying course Economics. The trainer was Mr. IkramUllah, Academic Officer, CUST. Overall, it was an interactive session and proved to be a great source of knowledge for the participants in their personal and as well as professional life. By promoting ethical and responsible financial practices, Islamic financial institutes contribute to building strong and inclusive financial systems that support sustainable development initiatives. Through partnerships and cooperation, they can further enhance the impact of their efforts and work towards achieving the SDGs collectively. Together, we can create a better world for everyone.

ACTIVITY 07

“ZINDIGI BOOTH MARKETING GALA”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**



At CUST's energetic Marketing Gala Zindigi Booth took centre stage with an innovative and efficient online economic growth system showcased, offering students the unique experience of receiving their debit cards within just 2-3 minutes, free of charge. Beyond the efficient services, the initiative aligns with SDG 8, encouraging students to play an active role in shaping a sustainable future by contributing to economic development and embracing opportunities for meaningful employment.

ACTIVITY 08

“SUSTAINABILITY & RESEARCHING A RENEWABLE RESOURCE”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Department of Accounting and Finance, under the Society of Accounting, Finance, and Economics (SAFE), with the collaboration DSE at Capital University of Science and Technology, organized an "Awareness Walk on Sustainability & Researching Renewable Resources" was led by Dr. Anam Tariq and Ms. Sadaf Adalat. The purpose of the walk was to provide students with awareness of the SDGs and the importance of these goals in academics especially, environmental sustainability and economic sustainability which play a pivotal role in the nation's development journey.

ACTIVITY 09

“ENHANCING GRADUATE EMPLOYABILITY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



Department of Bioinformatics and Biosciences organized a seminar "Enhancing Graduate Employability" under the supervision of Prof. Dr. Shaukat Iqbal with guest speaker Mr. Talha Aazar. The event aimed to equip students with skills and strategies to excel in the job market post-graduation, with objectives including resume crafting, interview skills, and job market readiness. The seminar covered practical tips and real-world examples, providing valuable insights into the current job market trends and employer expectations. The outcomes included enhanced knowledge and understanding of employability skills among participants.

ACTIVITY 10

“AN INSIGHT INTO PAKISTANI STOCK MARKET”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Department of Accounting and Finance organized a session themed “An Insight into Pakistani Stock Market”. The resource person was Ms. Rabia Mehreen, Visiting Lecturer, CUST. The session purpose was to give awareness on investment techniques in Pakistani Stock Market. Students were oriented towards the account opening, regulatory bodies of PSX. The do’s and don’ts of stock market investments, the types of stock to pick for trading was discussed.

ACTIVITY 11

“AN INDUSTRIAL TOUR TO SECP”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Society of Department of Accounting and Finance (SAFE) organized an Industrial Tour to Securities and Exchange Commission of Pakistan (SECP). The visit aimed to provide students with practical insights into the regulatory framework and operations of the financial sector. Participants were given a comprehensive tour of the SECP facilities and attended informative sessions led by industry experts. These sessions covered topics such as market regulation, corporate governance, and investor protection. The visit concluded with a Q&A session, allowing students to engage directly with professionals. Overall, the experience was enriching and educational for all attendees.

ACTIVITY 12

“INDUSTRIAL TOUR TO JACRANDA FAMILY CLUB”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Society of Department of Accounting and Finance (SAFE) organized an Industrial Tour to Jacaranda Family Club. There they managed to give a session to the students. The students were introduced with their new Software ERP, and showed them how they handled their accounts and manage the transactions. Furthermore, they are providing the Community services and many other things. The students managed to learn and see their Accounts holding section along with the background of Jacaranda.

ACTIVITY 13

“SEEKING OPPORTUNITIES ABROAD ”

**Organized By:
The Directorate of
Sustainability and
Environment**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a seminar on “Seeking Opportunities Abroad” for the students and alumni. The speaker invited was Mr. Talha Ahmed (Academic person). The seminar correlates with the objective of SDG 8-Decent work. Following points were highlighted:

- Scholarships
- Important Document required for the process
- Steps to apply
- Fellowship

ACTIVITY 14

“FORESTRY AND LOGGING OPERATIONS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

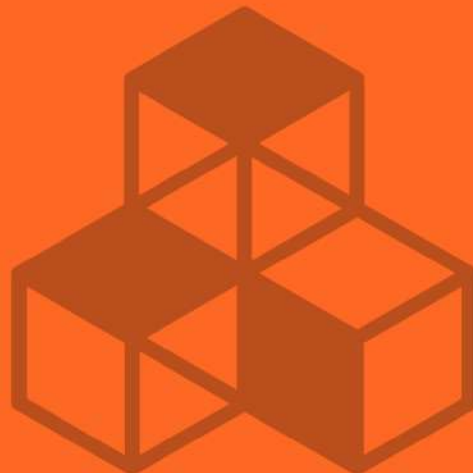


This report examines the occupational health and safety aspects of forestry and logging operations. It highlights the environmental risks associated with these activities, such as deforestation, forest fires, and their impact on biodiversity, water quality, and climate change. The report also discusses the major occupational health hazards faced by workers, including chainsaw accidents, vehicle incidents, and slip-and-fall accidents, using case studies.



SDG 09:

INDUSTRY, INNOVATION AND INFRASTRUCTURE



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



LIST OF ACTIVITIES

- | | | | |
|----|--|----|---|
| 01 | Design Build and Fly Competition | 09 | Health and Safety in Oil Refineries |
| 02 | Steam Boat Competition | 10 | Safety Guidelines regarding Grid Stations and electrical Industry |
| 03 | Workshop on Biosafety and Biosecurity | 11 | DC motor speed control |
| 04 | A seminar on Sustainable Construction Material | 12 | Themed activity on “Green Infrastructure” |
| 05 | Robocust 2024 | 13 | Climate Governance – Insights on Digital Transformation in the Amazon Forrest |
| 06 | Workshop on Robotic Events | 14 | Innovations in Assistive and Sensing Systems for Medical Engineering |
| 07 | Tremer Suppressor | 15 | Innovative Groundwater Remediation |
| 08 | Design and Implementation of Wearable Device for Tremors Suppression | 16 | Meta-Scaffolds for Bone and Tendon Regeneration |

ACTIVITY 01

“DESIGN BUILD AND FLY COMPETITION”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



Teams from the Department of Mechanical Engineering at CUST participated in a 'Design Build and Fly' competition held at the Ghulam Ishaq Khan Institute of Engineering Sciences and Technology. The event involved designing and constructing RC planes with the aim of providing students with an opportunity to learn about Aero-Modeling principles and innovative design techniques. This event directly contributes to Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure) by promoting technological development, research, and innovation in engineering, particularly in the aerospace sector.

ACTIVITY 02

“STEAM BOAT COMPETITION”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



The event aimed to showcase the ingenuity and craftsmanship of steam boat enthusiasts while promoting the preservation of traditional watercraft technologies. Participants and spectators alike were educated about the significance of steam boats in maritime history. This event directly contributes to Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure) by promoting technological development, research.

ACTIVITY 03

“WORKSHOP ON BIOSAFETY AND BIOSECURITY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



It was one day of training held under the supervision of Dr. Arshia Amin Butt. Guest speaker of this event was Dr. Wasim Sajjad working as Assistant Professor at NUMS, Certified Master Biosafety and Biosecurity Trainer (FIC-NIH, USA) who shared his valuable knowledge and prospects. The main purpose of this event was to give information to students about the international opportunity in biosecurity.

ACTIVITY 04

“SUSTAINABLE CONSTRUCTION MATERIALS”

**Organized By:
The Directorate of
Sustainability and
Development**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a seminar on “Sustainable Construction Materials” for the civil engineering students. The speaker invited was Mr. Majid Ali (Academic person). Following are the key aspects discussed:

- What are Sustainable materials.
- Motive.
- Source.
- Applications.



ACTIVITY 05

“ROBO-CUST 2024”

**Organized By:
The Electrical and
Computer Engineering,
DSE**



RoboCUST brings the opportunity for every student to showcase their talents at this platform and compete against the best in building and solving basic problems related to the field of robotics. SDG 9 addresses the following in RoboCUST :-

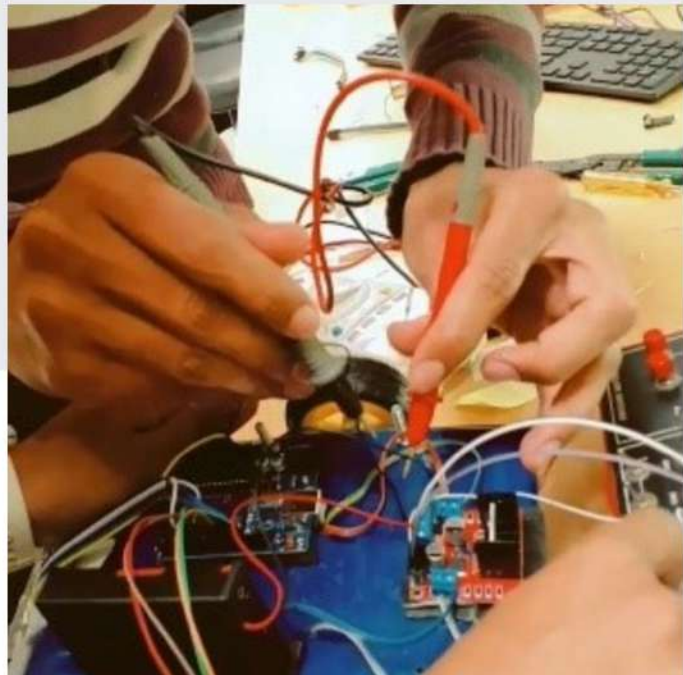
- Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development



ACTIVITY 06

"A TWO-DAY ROBOTICS WORKSHOP FOR COLLEGE AND UNIVERSITY STUDENTS"

**Organized By:
The Electrical and
Computer Engineering,
DSE**



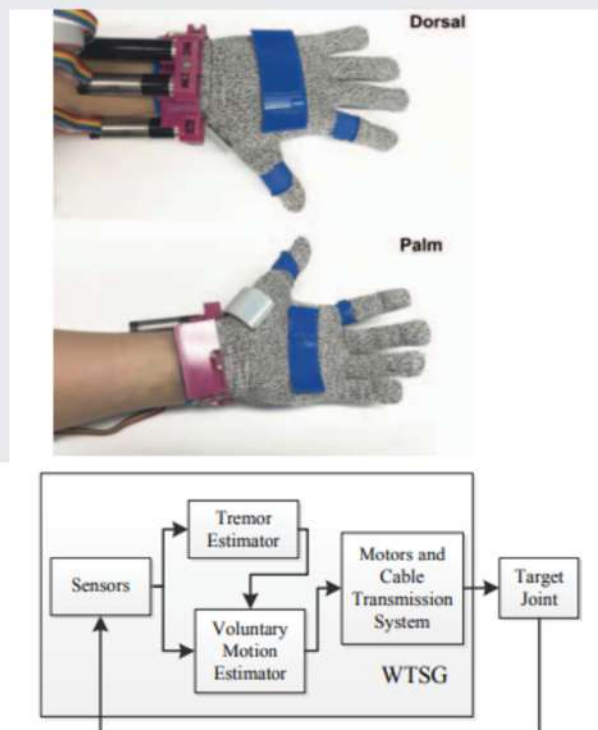
A comprehensive two-day workshop on robotics was meticulously designed to cater to both college and university-level participants. This immersive program aimed to equip students with the fundamental skills required to construct a basic robot. Throughout the workshop, attendees benefited from in-depth lectures and hands-on practical tutorials, delving into various facets of robotic technology. This workshop aims to support SDG-9 that focus on the innovation and by training and improving the skills needed to innovate workshop like this are arranged.



ACTIVITY 07

“TREMER SUPPRESSOR”

**Organized By:
The Directorate of
Sustainability and
Environment**



When considering Wearable tremor suppression device in the context of SDGs, several SDGs are important to consider. Stabilizing hand motions, the tremor suppression device immediately enhances the health and well-being of those with ailments like Parkinson's disease. This improves their general quality of life and mental health by empowering them to carry out daily duties more successfully and independently. It needs good health and wellbeing to be able to live happy and fruitful lives. Tremor suppression device are one example of a creative solution that can help close the gap and enhance health in areas where access to healthcare services may be limited.

ACTIVITY 08

“DESIGN AND IMPLEMENTATION OF WEARABLE DEVICE FOR TREMORS SUPPRESSION”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project aims to develop an innovative wearable device that effectively alleviates the debilitating effects of tremors in individuals affected by conditions like Parkinson's disease. The device will leverage advanced sensor technology and motion analysis algorithms to detect and respond to tremors in real-time, minimizing their disruptive impact on the user's daily activities and overall quality of life. According to the target 9.b, the project supports the domestic technology development, research, and innovation in Pakistan.

ACTIVITY 09

“HEALTH AND SAFETY IN OIL REFINERIES”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This report explores occupational health and safety (OHS) in the oil refinery sector, highlighting the complex measures implemented to safeguard worker well-being amidst inherent hazards. It examines case studies of major incidents, analyzes root causes and impacts, and outlines a framework for preventive and mitigative actions. The report also discusses the alignment of OHS practices with the UN Sustainable Development Goals. The report examines two major incidents: The Amuay Refinery explosion (2012) and the Buncefield oil storage terminal incident (2005). These case studies reveal systemic issues, such as inadequate maintenance and safety protocol failures, serving as a foundation for developing preventive measures.



ACTIVITY 10

“SAFETY GUIDELINES REGARDING GRID STATIONS AND ELECTRICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report discusses the importance and operations of grid stations, which are critical infrastructure for the transmission and distribution of electricity. Grid stations act as storage and transfer units, connecting power plants to homes and industries.

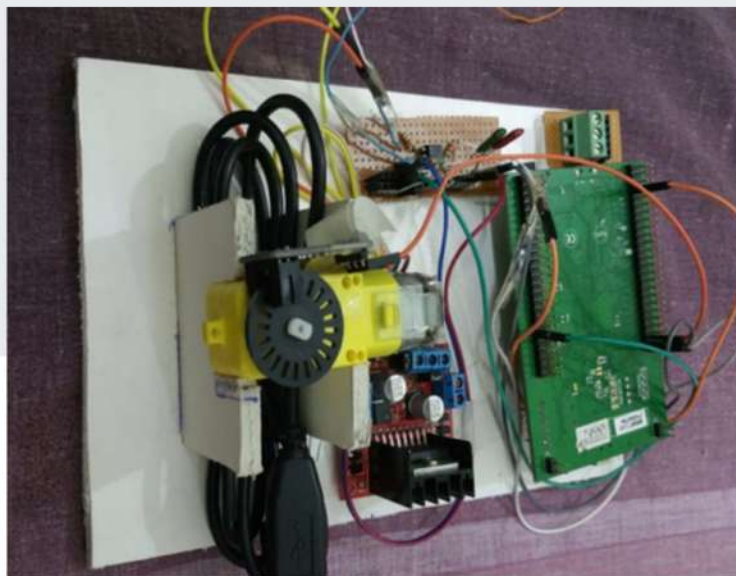
The report aligns the grid station operations with industry, innovation, and infrastructure (SDG 9).



ACTIVITY 11

“DC MOTOR SPEED CONTROL”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project implemented DC motor speed control using a digital Proportional-Integral-Derivative (PID) controller with Arduino. The PID controller regulated the motor speed by generating appropriate control signals based on the difference between desired and actual RPM. Experiments showed the digital PID controller provided faster response, reduced error, and improved stability compared to conventional methods. While the system demonstrated functionality, it had limitations in achieving the desired PWM and RPM values accurately. The project contributes to environmental sustainability by promoting energy-efficient motor control and user education on sustainable practices.



ACTIVITY 12

“A THEMED ACTIVITY ON GREEN INFRASTRUCTURE”

**Organized By:
The Directorate of
Sustainability and
Environment**

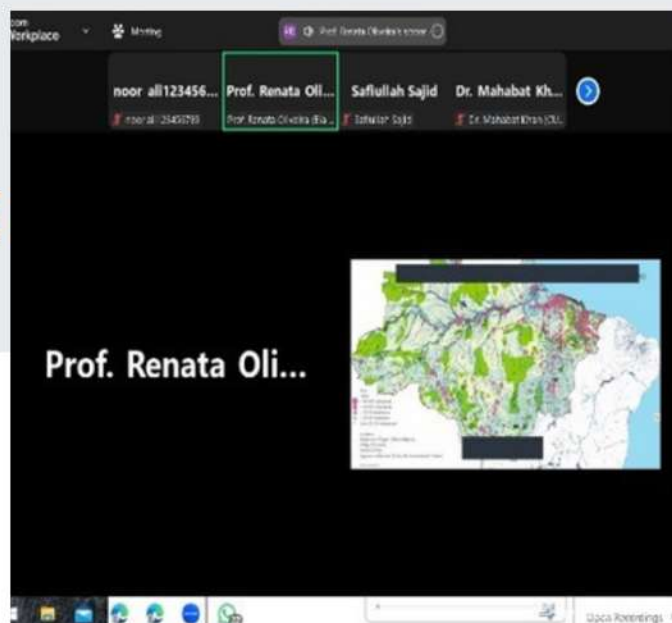


DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a themed activity on "Green Infrastructure." Themed desks adorned with informative posters and panaflex settings drew in students eager to explore the numerous facets of green infrastructure, from conservation areas to permeable pavements, emphasizing the crucial role these elements play in bolstering natural assets like wetlands, forests, and urban trees. As participants embarked on themed walks, the significance of nature-based solutions and engineered assets in mitigating climate change impacts resonated strongly, underscoring the event's alignment with SDG 09 resilient infrastructure and innovation.

ACTIVITY 13

“CLIMATE GOVERNANCE – INSIGHTS ON DIGITAL TRANSFORMATION IN THE AMAZON FORREST”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



The guest speaker was Dr. Renata Oliveira from State University of Pará, Brazil. The webinar aimed to educate participants about the importance of climate governance and the role of digital transformation in preserving the Amazon rainforest. Dr. Oliveira discussed how technologies like satellite imagery and remote sensing are used to monitor deforestation in real-time. She emphasized the collaboration between local communities, governments, and international organizations in enhancing climate governance and the importance of involving indigenous communities. In particular, the webinar focused on SDG 09. Dr. Oliveira explained how innovations in digital technology support sustainable industrial practices and infrastructure development.



ACTIVITY 14

"INNOVATIONS IN ASSISTIVE AND SENSING SYSTEMS FOR MEDICAL ENGINEERING"

**Organized By:
The Department of
Mechanical Engineering,
DSE**



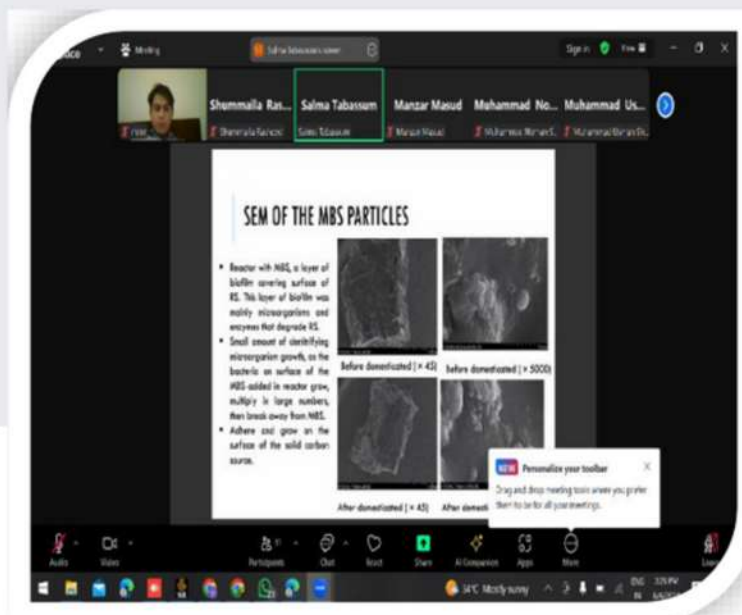
Dr. Shummaila Rasheed from Capital University of Science & Technology attended a webinar titled "Empowering Healthcare: Innovations in Assistive and Sensing Systems for Medical Engineering". The webinar focused on the latest advancements in assistive and sensing systems within medical engineering. It highlighted how these innovations are transforming healthcare by improving patient outcomes and enhancing the efficiency of medical practices. Various cutting-edge technologies, including wearable sensors, smart prosthetics, and advanced diagnostic tools, were discussed. Dr. Shummaila noted how the development and implementation of these advanced medical technologies are aligned with SDG 9 by promoting sustainable industrial growth and fostering innovation in healthcare infrastructure.



ACTIVITY 15

"INNOVATIVE GROUNDWATER REMEDIATION"

**Organized By:
The Department of
Mechanical Engineering,
DSE**



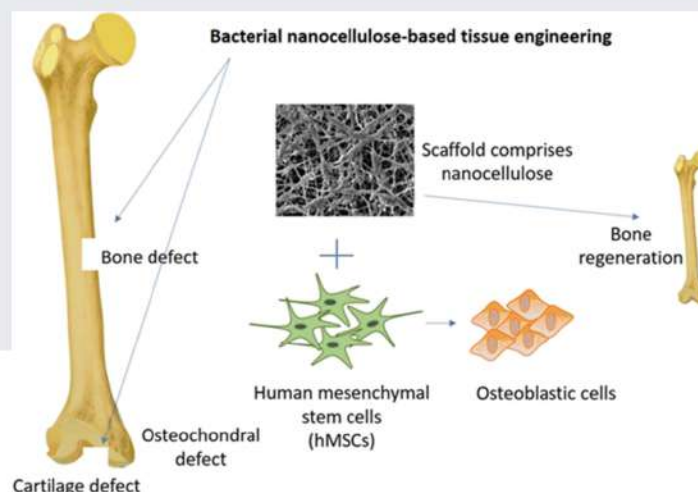
The Department of Mechanical Engineering at Capital University of Science & Technology conducted a webinar titled "Innovative Groundwater Remediation: Unveiling the Power of Mass Biosystems and Solid Organic Carbon Sources." The guest speaker was Dr. Salma Tabassum from Sakarya University, Turkey. The webinar aimed to explore advanced techniques in groundwater remediation, focusing on the efficacy of mass biosystems and solid organic carbon sources. It was highlighted that how these technologies leverage natural processes to detoxify pollutants and improve water quality. Dr. Salma emphasized the relevance to sustainable development, particularly Sustainable Development Goal (SDG) 9, which emphasizes industry, innovation, and infrastructure.



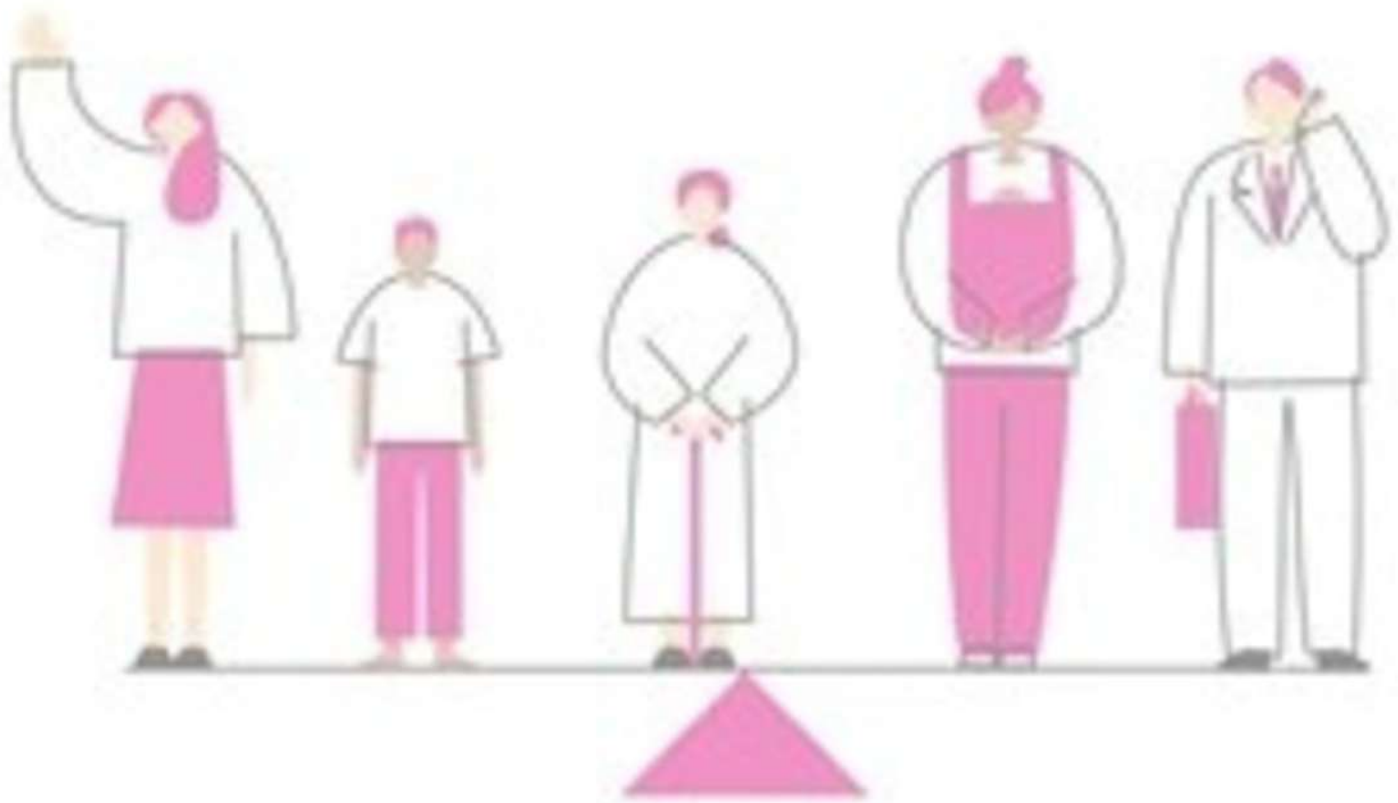
ACTIVITY 16

"META-SCAFFOLDS FOR BONE AND TENDON REGENERATION"

Organized By:
The Department of
Mechanical Engineering,
DSE



Dr. Shummaila Rasheed from Capital University of Science & Technology attended a webinar titled "Meta-Scaffolds for Bone and Tendon Regeneration." The Guest Speaker was Dr. Mehd Bodaghi from Nottingham Trent University. The webinar focused on the latest developments in meta-scaffolds and their applications in bone and tendon regeneration. It covered advanced materials and techniques used to create scaffolds that promote tissue healing and regeneration. Discussions included the design, fabrication, and biological integration of these scaffolds. The discussion emphasized the relevance of Sustainable Development Goal (SDG) 9, which focuses on industry, innovation, and infrastructure.



SDG 10:

REDUCED INEQUALITIES





LIST OF ACTIVITIES

- | | |
|---|--|
| 01 Painting and picnic Circle on “World Food Day” | 05 Story Telling: An initiative towards community |
| 02 Empowering Communities for Inclusive Sustainable Development | 06 Design and Implementation of Wearable Device for Tremors Suppression |
| 03 Inclusive Pathways- Advocating Disability Inclusion for Better World. | 07 Health and Safety in Oil Refineries |
| 04 Fostering Inclusive Growth CSR in Sales for SDG 10 | 08 Health and Safety in Hydel Power Plant |
| | 09 Nuclear Power Plant |

ACTIVITY 01

PAINTING AND PICNIC CIRCLE ON "WORLD FOOD DAY"

**Organized By:
The Department of
Management Sciences,
CALC, DSE**



This inclusive initiative united students across the university, emphasizing the global imperatives of SDG 10 - Reduced Inequalities. The event aimed to foster cultural understanding, promote responsible food practices, nurture community inclusivity, inspire artistic expression, and raise awareness about food security and sustainability.

The 'Picnic & Paint Circle' not only met its objectives but also left a lasting impact, instilling values of compassion and global citizenship. By integrating SDG 10 principles, the event exemplified the potential for impactful initiatives in addressing global challenges.

ACTIVITY 02

"EMPOWERING COMMUNITIES FOR INCLUSIVE SUSTAINABLE DEVELOPMENT"

**Organized By:
The Department of
Management
Sciences, DSE**



The workshop on "Empowering Communities: Youth Initiative in Environmental Management for Inclusive Sustainable Development," organized by the Department of Management Sciences, featured Mr. Mushahid Hussain, a Skills Trainer at Youth Impact. Mr. Hussain emphasized the pivotal role of youth in addressing environmental challenges, aligning with SDG 10's goal of reducing inequality. The audience gained insights into practical strategies for community empowerment, contributing to SDG 10 by fostering inclusivity in environmental initiatives. The workshop encouraged collaborative discussions and initiatives for building sustainable communities, fostering a sense of responsibility among participants.

ACTIVITY 03

“INCLUSIVE PATHWAYS- ADVOCATING DISABILITY INCLUSION FOR BETTER WORLD”

**Organized By:
The Department of
Management
Sciences,DSE**



The "Inclusive Pathways-Advocating Disability Inclusion for a Better World" Awareness Walk, made a powerful impact aligned with SDG 10: Reduced Inequalities. The event focused on collective student and faculty participation, emphasizing the shared responsibility of fostering inclusivity. This grassroots approach imparted knowledge about the challenges faced by individuals with disabilities and contributed to a heightened awareness and empathy within the university community, aligning with SDG 10's goal of addressing discriminatory practices.

ACTIVITY 04

“FOSTERING INCLUSIVE GROWTH CSR IN SALES FOR SDG 10”

**Organized By:
The Department of
Management
Sciences, DSE**



The seminar, featuring Mr. Sayed Azhar Hussain, Zonal Manager of Sales for Agha Steel, intricately explored the correlation between CSR in sales and SDG 10, specifically focused on reducing inequalities. Mr. Azhar Hussain emphasized the delicate balance businesses must strike between profitability and social responsibility, employing technical terms like "societal inclusivity" and "equitable growth." The audience, predominantly students and faculty, gained profound insights into the practical applications of CSR in sales, empowering them to actively contribute to societal inequality reduction, a direct alignment with SDG 10 objectives.

ACTIVITY 05

“STORY TELLING: AN INITIATIVE TOWARDS COMMUNITY”

**Organized By:
The Department of
Psychology, DSE**



The event featured documentaries highlighting the conditions in developed and underdeveloped areas, focusing on marginalized groups like slum dwellers, beggars, and transgender individuals. The primary aim was to raise awareness about the challenges faced by these communities and emphasize the relevance of the United Nations Sustainable Development Goals (UNSDGs) to local issues in Pakistan.

The event, attended by DSE members and Psychology faculty, provided a platform for meaningful discussions on sustainability and inclusivity. It demonstrated the importance of aligning global goals with local challenges, fostering empathy, and encouraging active participation in sustainable development efforts.

ACTIVITY 06

“DESIGN AND IMPLEMENTATION OF WEARABLE DEVICE FOR TREMORS SUPPRESSION”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project aims to develop an innovative wearable device that effectively alleviates the debilitating effects of tremors in individuals affected by conditions like Parkinson's disease. The device will leverage advanced sensor technology and motion analysis algorithms to detect and respond to tremors in real-time, minimizing their disruptive impact on the user's daily activities and overall quality of life. According to the target 10.a, the projects facilitates the implementation of the principle of special and differential treatment for Pakistan.

ACTIVITY 07

“HEALTH AND SAFETY IN OIL REFINERIES”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This report explores occupational health and safety (OHS) in the oil refinery sector, highlighting the complex measures implemented to safeguard worker well-being amidst inherent hazards. It examines case studies of major incidents, analyzes root causes and impacts, and outlines a framework for preventive and mitigative actions. The report also discusses the alignment of OHS practices with the UN Sustainable Development Goals. The report examines two major incidents: The Amuay Refinery explosion (2012) and the Buncefield oil storage terminal incident (2005). These case studies reveal systemic issues, such as inadequate maintenance and safety protocol failures, serving as a foundation for developing preventive measures.

ACTIVITY 08

“HEALTH AND SAFETY IN HYDEL POWER PLANTS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

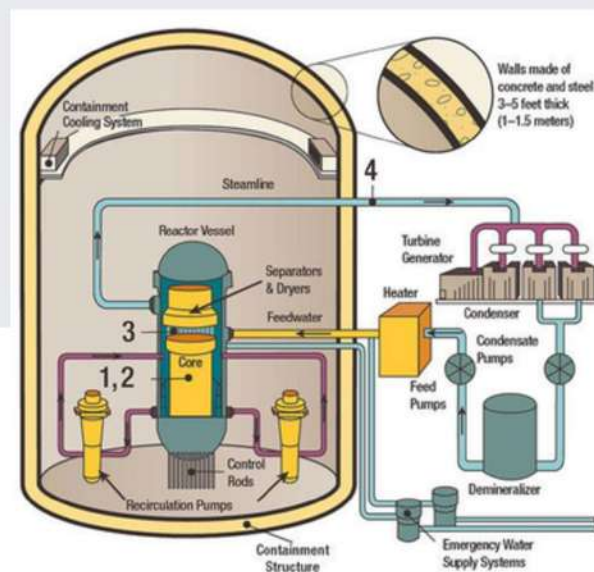


Hydropower is a clean and renewable energy source, but it also poses potential risks to workers, communities, and the environment. This report delves into the crucial aspects of health and safety in hydel power plants. It systematically identifies and assesses various hazards, ranging from physical and electrical to chemical and environmental. Implementing robust safety protocols and procedures, utilizing advanced technologies, and fostering a strong safety culture are emphasized as key strategies to mitigate these risks. The report also highlights the importance of regulatory compliance, community engagement, and environmental impact management for the sustainable operation of hydel power plants.

ACTIVITY 09

“NUCLEAR POWER PLANT”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This project report provides an overview of nuclear power plants, their working, types of reactors, safety measures, and the impact on sustainable development. It discusses the case studies of the Chernobyl and Fukushima nuclear disasters, as well as the management of nuclear waste. The report aims to address the misconceptions about the health and safety aspects of nuclear power.

The report concludes by emphasizing the safety and environmental benefits of nuclear power, underscoring its potential to provide clean, affordable, and reliable energy. It acknowledges the public's concerns but argues that the advantages of nuclear power outweigh the drawbacks, making it a viable option for sustainable energy production.



SDG 11:

SUSTAINABLE CITIES AND COMMUNITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



LIST OF ACTIVITIES

- | | |
|--|---|
| 01 Enhancing Construction Efficiency with GNSS | 06 A seminar on Sustainable Construction Material |
| 02 Primavera P6 Workshop | 07 SDGs Expo-2024 |
| 03 Awareness campaign on sustainable construction Practices | 08 Hazardous Material Management in the Chemical Industry (BASF) |
| 04 Bridge building competition | 09 Themed Activity on “Green Infrastructure” |
| 05 Story Telling: An Initiative towards Community | 10 Volunteer In Service Awareness Activity |

ACTIVITY 01

“ENHANCING CONSTRUCTION EFFICIENCY WITH GNSS”

**Organized By:
The Directorate of
Sustainability and
Environment**



Mr. Fayyaz first of all introduced everyone about the concept of GNSS, its importance, its vast applications in various fields(driverless cars, disaster management, construction machinery operation, structural health monitoring and many other wide applications),how it is being implemented in Pakistan, He also addressed students and told them how easily they can be replaced if they do not keep up with modern tool usage, what changes are expected in this field in a couple of years),how it will replace the surveying industryand how much beneficial it is as compared to traditional surveying, some of its minor drawbacks.

ACTIVITY 02

“PRIMAVERA P6 WORKSHOP”

**Organized By:
The Department of Civil
Engineering, DSE**



The session provided an in-depth exploration of fundamental software commands, spanning a duration of 2 hours. Participants delved into a detailed study of essential commands, encompassing the creation of WBS and OBS structures, activity generation, resource and calendar assignments, as well as the critical aspect of activity linking for scheduling purposes. Engr. Asad Sufiyan who is working as a planning engineer, also covered various minor commands, enriching the participants' understanding of the software's functionality and usability.

ACTIVITY 03

"AWARENESS CAMPAIGN ON SUSTAINABLE CONSTRUCTION PRACTICES"

**Organized By:
The Department of Civil
Engineering, DSE**



An awareness desk with posters was set up for the campaign with the aim of guiding and creating awareness, succeeded in engaging students from various departments. Participants were actively guided and informed about sustainable practices, with a focus on pivotal of "Sustainable Construction Practices." The exhibition of informative posters served as a visual aid, encapsulating essential information for attendees. The "Sustainable Construction Practices" campaign emphasized rooftop gardens, effective waste management and recycling, strategies for zero carbon emission, and the promotion of public transport access, particularly group travel systems.

ACTIVITY 04

“BRIDGE BUILDING COMPETITION”

**Organized By:
The Department of Civil
Engineering, DSE**



The Cust University Bridge Building Competition, brought together engineering enthusiasts and students from various disciplines to showcase their innovative bridge designs. Beyond the technical aspect of the event, the competition was aligned with Sustainable Development Goal 11, which focuses on making cities and human settlements inclusive, safe, resilient, and sustainable. The winning team was awarded with certificates and cash prize as well.

ACTIVITY 05

“STORY TELLING: AN INITIATIVE TOWARDS COMMUNITY”

**Organized By:
The Department of
Psychology, DSE**



The event featured documentaries highlighting the conditions in developed and underdeveloped areas, focusing on marginalized groups like slum dwellers, beggars, and transgender individuals. The primary aim was to raise awareness about the challenges faced by these communities and emphasize the relevance of the United Nations Sustainable Development Goals (UNSDGs) to local issues in Pakistan.

The event, attended by DSE members and Psychology faculty, provided a platform for meaningful discussions on sustainability and inclusivity. It demonstrated the importance of aligning global goals with local challenges, fostering empathy, and encouraging active participation in sustainable development efforts.

ACTIVITY 06

“SUSTAINABLE CONSTRUCTION MATERIALS”

**Organized By:
The Directorate of
Sustainability and
Development**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a seminar on “Sustainable Construction Materials” for the civil engineering students. The speaker invited was Mr. Majid Ali (Academic person). Following are the key aspects discussed:

- What are Sustainable materials.
- Motive.
- Source.
- Applications.

ACTIVITY 07

“SDGS EXPO 2024”



**Organized By:
The Department of
Management Sciences,
DSE**

The SDGs Expo 2024 successfully showcased the university's innovative approaches to sustainability, reflecting a strong commitment to advancing environmental stewardship.

Through a competitive display of projects, the event highlighted the remarkable work of the SDG ambassadors, who demonstrated creativity and depth in their initiatives.

ACTIVITY 08

“HAZARDOUS MATERIAL MANAGEMENT IN THE CHEMICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



BASF is a chemical industry operating in Pakistan for over 50 years and it produces a wide range of chemicals like amines, solvents, resins, and glues. The project contributes to environmental sustainability by promoting Building sustainable cities and communities (SDG 11).

ACTIVITY 09

“A THEMED ACTIVITY ON GREEN INFRASTRUCTURE”

**Organized By:
The Directorate of
Sustainability and
Environment**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a themed activity on "Green Infrastructure." Themed desks adorned with informative posters and panaflex settings drew in students eager to explore the numerous facets of green infrastructure, from conservation areas to permeable pavements, emphasizing the crucial role these elements play in bolstering natural assets like wetlands, forests, and urban trees. As participants embarked on themed walks, the significance of nature-based solutions and engineered assets in mitigating climate change impacts resonated strongly, underscoring the event's alignment with SDG 11 focused on sustainable cities and communities.

ACTIVITY 10

“VOLUNTEER IN SERVICE AWARENESS ACTIVITY”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



This initiative, led by Dr. Shummaila Rasheed, focused particularly on SDG 11: Sustainable Cities and Communities. Dr. Shummaila provided an in-depth exploration of how volunteer work plays a crucial role in building resilient, safe, and inclusive communities. She discussed how these efforts not only address immediate local needs but also contribute to long-term societal sustainability. She also inspired participants with her insightful discussion on the impact of volunteer work in both personal and professional development. By fostering a spirit of volunteerism, the department is encouraging students to take an active role in driving positive change, thereby integrating academic learning with meaningful community impact.



SDG 12:

**RESPONSIBLE
CONSUMPTION AND
PRODUCTION**





LIST OF ACTIVITIES

01 Workshop on Environment Sustainability and Plastic Waste Management

02 The Bird Feeders Art Competition and Plantation of Bird Feeders

03 Art of Recycling

04 Cat Feeder's Art Competition

05 Cleanliness Drive

06 Bird Feeder's Art Competition

07 Steam Boat Competition

08 World Water Day

09 World Meteorological Day

10 Eco friendly Arts and Crafts Competition

11 Energy Conservation Seminar

12 International Biodiversity Day

13 Forestry and Logging Operations

14 Safety Guidelines regarding Grid Stations and electrical Industry

ACTIVITY 01

“WORKSHOP ON ENVIRONMENT SUSTAINABILITY AND PLASTIC WASTE MANAGEMENT”

**Organized By:
The Directorate of
Sustainability and
Environment**



The Directorate of Sustainability and Environment (DSE) at Capital University of Science & Technology organized a workshop on minimizing plastic pollution with a focus on 'Sustainable Consumption and Production.' The workshop aimed to educate participants about environmentally conscious choices and the significance of sustainable behaviors. On the behalf of Director DSE, Engr. Prof. Dr. Majid Ali acknowledged the distinguished guest of honor, highlighting the university's commitment to ethical consumption and its role in achieving the Sustainable Development Goals (SDGs).

ACTIVITY 02

“THE BIRD FEEDERS ART COMPETITION AND PLANTATION OF BIRD FEEDERS”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event comprised two exciting parts; “Preparing the Bird Feeders” and “Plantation of Bird Feeders” both designed to challenge the intellect and creativity of participants. The organizers and participants displayed immense interest and enthusiasm throughout the event and made the event successful. Then plantation of the prepared bird feeders done. So, suitable locations and trees were selected for the bird feeder’s plantation. The bird feeders would be refilled after two to three days to provide food and water for the birds. The winners of event were awarded an array of exciting prizes, acknowledging their dedication. The event witnessed active participation from both teachers and students, underscoring the collaborative spirit within the academic community.

ACTIVITY 03

“ART OF RECYCLING”

**Organized By:
The Department of
Psychology, DSE**



The purpose of organizing a recycling event was to raise awareness about the importance of recycling and its positive impact on the environment. The students created innovative and creative items by recycling materials like plastic, paper, glass bottles, cardboards, and plastic bottle caps. They turned plastic bottles into innovative planters or bird feeders, created beautiful artwork, lamps, pen holders etc. using recycled paper, and made unique crafts using glass bottles and cardboards. The students displayed their recycled products/items on tables and faculty of psychology department, Directorate of DSE and Director ORIC visited to see their creativity.

ACTIVITY 04

“CAT FEEDER’S ART COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



The competition was organized by social welfare club which aimed to assess the creativity of students and make them interact with nature. It provided an efficient solution for raising and feeding cats. A number of students participated in the competition. The cat feeders were evaluated by our honorable guests. After the evaluation, according to set standards of being recyclable, durable and creative; the cat feeders were placed on suitable spots from where the cats can access food or water easily.

ACTIVITY 05

“CLEANLINESS DRIVE”

**Organized By:
The Faculty of Pharmacy,
DSE**



The event aimed to highlight the importance of cleanliness with the motto of “Clean and Green Pakistan”. In the CUST FEST, everyone represented a stall and due to this, there were a lot of wrappers, and other waste on the ground. These wrappers were all collected by the students to make the ground clean again after finishing of the event. Each group was made responsible to clean the area around their stalls and wrap them up in a shopping bag. All the collected waste was then thrown into the dustbin.

ACTIVITY 06

“BIRD FEEDER’S ART COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



The competition was organized by social welfare club which aimed to assess the creativity of students and make them interact with nature. The bird feeders were evaluated by our honorable guests. After the evaluation according to set standards of being recyclable, durable and creative; the results were announced as 1st-Laiba Imran, 2nd-Muskan Rehana, 3rd-Mahnoor. Proceedings towards plantation, ribbon-cutting ceremony was held where Dr. Muzaffar Abbas, Ms. Nitasha Gohar, and Prof. Dr Ishtiaq Hassan (Director DSE), along with other faculty members initiated the plantation of feeders.

ACTIVITY 07

“STEAM BOAT COMPETITION”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



The event aimed to showcase the ingenuity and craftsmanship of steam boat enthusiasts while promoting the preservation of traditional watercraft technologies. Participants and spectators alike were educated about the significance of steam boats in maritime history. The reuse of waste tin cans targets the SDG-12.

ACTIVITY 08

“WORLD WATER DAY”

**Organized By:
The Faculty of Pharmacy,
DSE**



The Faculty of Pharmacy marked World Water Day with a captivating phrase competition, igniting dialogue on water conservation. From a themed desk, students across the university penned heartfelt notes, emphasizing the vital need to preserve this invaluable resource. The event not only raised awareness but also galvanized collective action for safeguarding water. It fostered personal growth and a sense of responsibility, cultivating a commitment to stewardship for future generations. This initiative serves as a beacon for advocating universal access to clean water and promoting sustainable water management practices for a healthier, more equitable world

ACTIVITY 09

"WORLD METEOROLOGICAL DAY"

**Organized By:
The Faculty of Pharmacy,
DSE**



Pharma Spark Society orchestrated an enlightening FM radio discussion on World Meteorological Day, centered around the theme "At the Frontline of Climate Action." It underscores the pivotal role of meteorological services in addressing the consequences of climate change and strengthening efforts to mitigate its effects. The talk aimed to spotlight climate change and its extensive impacts on our planet. They also elucidated the interconnectedness of these issues, emphasizing the urgent need for collective action to combat climate change.

ACTIVITY 10

“ECO FRIENDLY ARTS AND CRAFT COMPETITION”

**Organized By:
The Faculty of Pharmacy,
DSE**



The aim of eco-friendly arts and crafts is to promote sustainability by repurposing materials and reducing waste, fostering creativity while protecting the environment. All the students were provided with certificates. Such activities not only inspire innovation but also foster a sense of responsibility towards our planet. It is in accordance with SDG-12 as it focused on the conversion of recyclable and reusable materials into useful décor related products. This also ensured a greener future through creative expression.

ACTIVITY 11

“ENERGY CONSERVATION SEMINAR”

**Organized By:
The Faculty of Pharmacy,
DSE**



The honorable guest emphasized the pressing need for energy conservation due to escalating energy costs and environmental impacts. The speaker discussed emerging technologies like green chemistry, bio-based materials, and AI-driven energy management systems, outlining their potential impacts on future of the industry. It is in accordance with SDG-12 as seminar underscored importance of multidisciplinary approach to energy conservation in pharmaceutical industry, demonstrating that with concerted effort and innovation, substantial energy savings and environmental benefits can be achieved

ACTIVITY 12

“INTERNATIONAL BIOLOGICAL DIVERSITY DAY (PHRASE COMPETITION)”

**Organized By:
The Faculty of Pharmacy,
DSE**



The aim for biodiversity is to conserve and sustainably manage Earth's diverse array of species and ecosystems. This includes protecting habitats, promoting genetic diversity, and mitigating human-induced threats to ensure the resilience and vitality of our planet's interconnected web of life. This phrase competition engaged participants to creatively express the significance of biodiversity and captured the essence of biodiversity conservation and its importance for the planet. It is in accordance with SDG-12 as the main goal of International Biological Diversity Day is to secure and conserve a flourishing environment for current and future generations.

ACTIVITY 13

“FORESTRY AND LOGGING OPERATIONS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This report examines the occupational health and safety aspects of forestry and logging operations. It highlights the environmental risks associated with these activities, such as deforestation, forest fires, and their impact on biodiversity, water quality, and climate change. The report also discusses the major occupational health hazards faced by workers, including chainsaw accidents, vehicle incidents, and slip-and-fall accidents, using case studies.

ACTIVITY 14

“SAFETY GUIDELINES REGARDING GRID STATIONS AND ELECTRICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The report discusses the importance and operations of grid stations, which are critical infrastructure for the transmission and distribution of electricity. Grid stations act as storage and transfer units, connecting power plants to homes and industries.



SDG 13:

CLIMATE ACTION





LIST OF ACTIVITIES

- | | |
|---|---|
| 01 Awareness Walk for a 'Greener Future' | 10 Forestry and Logging Operations |
| 02 Plantation Drive in SDGs Garden | 11 DC motor speed control |
| 03 Awareness Walk for the Reduction of Plastic Bags | 12 Hazardous Material Management in the Chemical Industry (BASF) |
| 04 Workshop on Environment Sustainability and Plastic Waste Management | 13 Health and Safety in Hydel Power Plants |
| 05 Climate Governance – Insights on Digital Transformation in the Amazon Forrest | 14 Nuclear Power Plant |
| 06 Plantation Day | 15 World Environment Day Walk |
| 07 Ecosystem Reforestation Day | 16 Sustainability & Researching a Renewable Resource |
| 08 One Day Trip to Islamabad Wildlife Management Board | 17 Themed Activity on Sustainable Transportation |
| 09 An Awareness walk on Earth Day | 18 Safety Guidelines regarding Grid Stations and electrical Industry |

ACTIVITY 01

“AWARENESS WALK FOR A GREENER FUTURE”

**Organized By:
The Department of
English, DSE**



This event successfully brought faculty members and students together to advocate for environmental consciousness and encourage actionable steps toward a cleaner, greener, and more sustainable world. The collective efforts during the walk served as 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.



ACTIVITY 02

“PLANTATION DRIVE IN SDGS GARDEN”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**



The Washington Accord (WA) Team conducted a comprehensive assessment of the Faculty of Engineering Departments and their Outcome-Based Education (OBE) activities. Following this assessment, the Directorate of Sustainability and Environment extended an invitation to the WA Team to lead a plantation drive in the SDGs Garden. This collaborative effort not only showcases CUST's dedication to foster sustainable educational practices but also emphasizes the university's commitment for implementing the SDGs on campus, including those related to climate action, biodiversity, sustainable communities, quality education, and international partnerships, marking CUST's foremost commitment to global sustainability.



ACTIVITY 03

“AWARENESS WALK FOR REDUCTION OF PLASTIC BAGS”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**



The Directorate of Sustainability and Environment (DSE) organized a walk with a focus on 'Sustainable Consumption and Production' to raise awareness about the importance of eliminating plastic litter. The walk brought together guests of honor, faculty members, and students. Slogans and messages were prominently displayed along the route to educate and raise awareness among participants. The event served as an excellent motivational platform to inspire individuals to take meaningful steps toward a cleaner and more sustainable environment.

ACTIVITY 04

“WORKSHOP ON ENVIRONMENT SUSTAINABILITY AND PLASTIC WASTE MANAGEMENT”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**

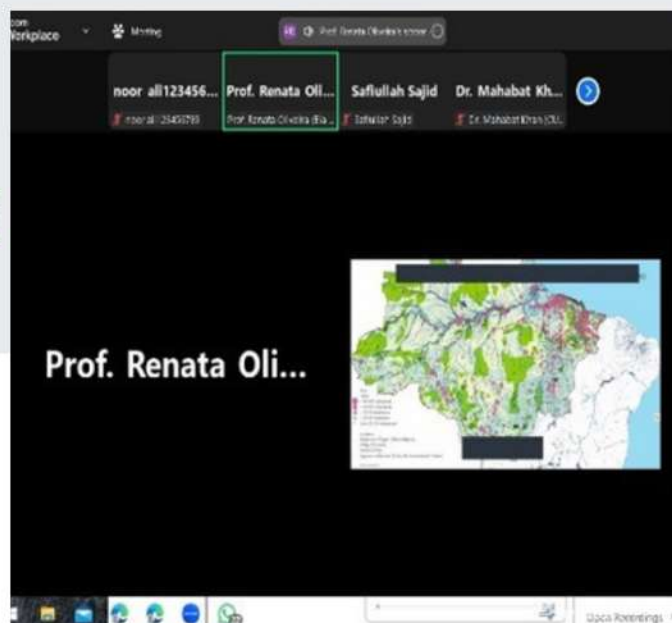


The Directorate of Sustainability and Environment (DSE) at Capital University of Science & Technology organized a workshop on minimizing plastic pollution with a focus on 'Sustainable Consumption and Production.' The workshop aimed to educate participants about environmentally conscious choices and the significance of sustainable behaviors. On behalf of Director DSE, Engr. Prof. Dr. Majid Ali acknowledged the distinguished guest of honor, highlighting the university's commitment to ethical consumption and its role in achieving the Sustainable Development Goals.

ACTIVITY 05

“CLIMATE GOVERNANCE – INSIGHTS ON DIGITAL TRANSFORMATION IN THE AMAZON FORREST”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



The guest speaker was Dr. Renata Oliveira from State University of Pará, Brazil. The webinar aimed to educate participants about the importance of climate governance and the role of digital transformation in preserving the Amazon rainforest. Dr. Oliveira discussed how technologies like satellite imagery and remote sensing are used to monitor deforestation in real-time. She emphasized the collaboration between local communities, governments, and international organizations in enhancing climate governance and the importance of involving indigenous communities. In particular, the webinar focused on SDG 13. Dr. Oliveira explained how climate change challenges can be handled.



ACTIVITY 06

“PLANTATION DRIVE”

**Organized By:
The Department of
English, DSE**



The Vice-Chancellor, Head of the English Department, Deputy Secretary of Volunteer in Service (VIS), and esteemed faculty members came together to actively participate in this impactful initiative. The planting of trees became a concrete manifestation of their dedication to greening the campus and fostering a sustainable future. With each dignitary taking their turn to plant a sapling, a sense of unity and purpose permeated the gathering. As the event progressed, conversations flourished, echoing the shared belief in the transformative power of collective action. This meaningful endeavor underscored the pivotal role of addressing climate change and creating a more resilient and ecologically balanced world.



ACTIVITY 07

“ECO-SYSTEM RESTORATION DAY”

**Organized By:
The Department of
English, DSE**



The English Department hosted a meaningful event titled Eco-System Restoration Day, which focused on recycling and climate action. This event served as a platform for students across different departments to come together and showcase their creativity in creating recycled products from various materials, including plastic bottles, caps, and sticks, by transforming them into innovative and useful objects. This initiative not only highlighted the potential of recycling as a tangible way to contribute to climate action but also underscored the importance of collective efforts in building a more sustainable future.

ACTIVITY 08

“ONE DAY TRIP TO ISLAMABAD WILD LIFE MANAGEMENT BOARD”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



The Department of Bioinformatics and Biosciences, GENIX Society organized a "One Day Trip to Islamabad Wildlife Management Board," which included trekking on Margalla Hills Track-5. The journey was filled with fun and memories for both students and faculty members. During the trip, students, accompanied by faculty members, hiked Margalla Hills Track-5, unveiling nature's marvels along the way. At the Islamabad Wildlife Management Board, they attended a lecture on biodiversity awareness and gained valuable field exposure. The day concluded with an executive lunch. Overall, it was an incredible experience that combined education and adventure.



ACTIVITY 09

“AWARENESS WALK ON EARTH DAY”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



The Earth Day awareness walk at the university aimed at highlighting the urgent need for climate action and environmental stewardship, aligning closely with Sustainable Development Goal 13.

The events fostered awareness and educated the campus community about climate change and sustainability, showcasing ongoing initiatives and inspiring individuals to adopt eco-friendly practices.

ACTIVITY 10

“FORESTRY AND LOGGING OPERATIONS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

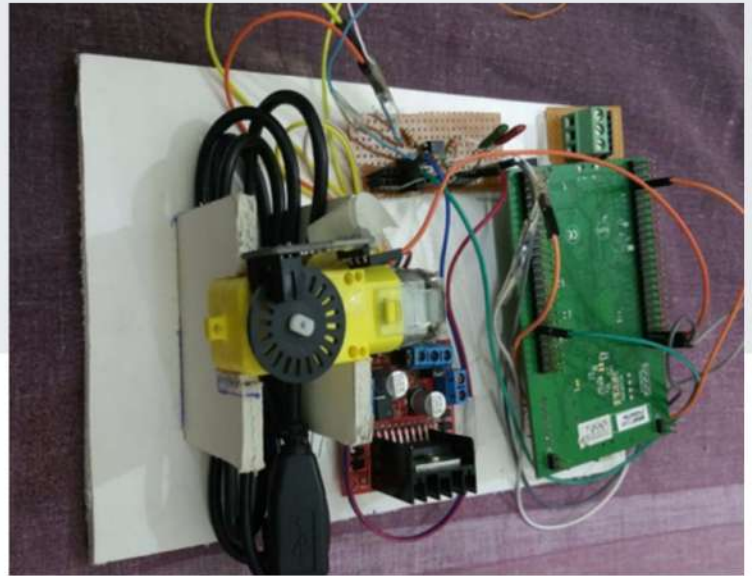


This report examines the occupational health and safety aspects of forestry and logging operations. It highlights the environmental risks associated with these activities, such as deforestation, forest fires, and their impact on biodiversity, water quality, and climate change. The report also discusses the major occupational health hazards faced by workers, including chainsaw accidents, vehicle incidents, and slip-and-fall accidents, using case studies.

ACTIVITY 11

“DC MOTOR SPEED CONTROL”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project implemented DC motor speed control using a digital Proportional-Integral-Derivative (PID) controller with Arduino. The PID controller regulated the motor speed by generating appropriate control signals based on the difference between desired and actual RPM. Experiments showed the digital PID controller provided faster response, reduced error, and improved stability compared to conventional methods. While the system demonstrated functionality, it had limitations in achieving the desired PWM and RPM values accurately. The project contributes to environmental sustainability by promoting energy-efficient motor control and user education on sustainable practices.

ACTIVITY 12

“HAZARDOUS MATERIAL MANAGEMENT IN THE CHEMICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



BASF is a chemical industry operating in Pakistan for over 50 years and it produces a wide range of chemicals like amines, solvents, resins, and glues. The project contributes to environmental sustainability by promoting climate action (SDG 13).

ACTIVITY 13

“HEALTH AND SAFETY IN HYDEL POWER PLANTS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



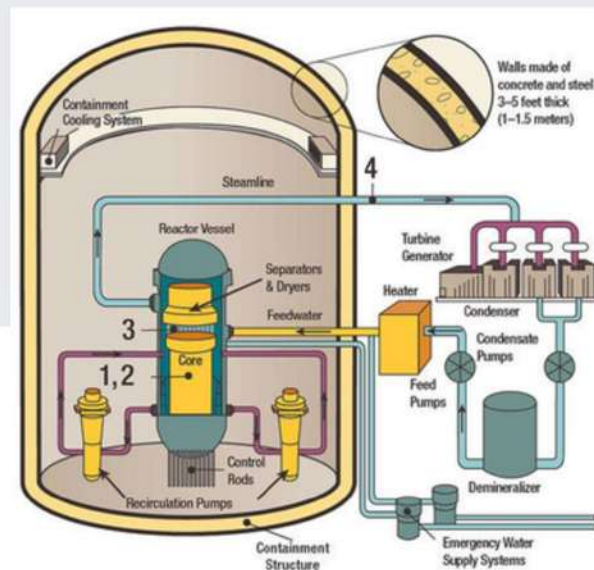
Hydropower is a clean and renewable energy source, but it also poses potential risks to workers, communities, and the environment. This report delves into the crucial aspects of health and safety in hydel power plants. It systematically identifies and assesses various hazards, ranging from physical and electrical to chemical and environmental. Implementing robust safety protocols and procedures, utilizing advanced technologies, and fostering a strong safety culture are emphasized as key strategies to mitigate these risks. The report also highlights the importance of regulatory compliance, community engagement, and environmental impact management for the sustainable operation of hydel power plants. By addressing these critical areas, this report aims to contribute to the development of a safer and more resilient hydropower industry.



ACTIVITY 14

“NUCLEAR POWER PLANT”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This project report provides an overview of nuclear power plants, their working, types of reactors, safety measures, and the impact on sustainable development. It discusses the case studies of the Chernobyl and Fukushima nuclear disasters, as well as the management of nuclear waste. The report aims to address the misconceptions about the health and safety aspects of nuclear power.

The report concludes by emphasizing the safety and environmental benefits of nuclear power, underscoring its potential to provide clean, affordable, and reliable energy. It acknowledges the public's concerns but argues that the advantages of nuclear power outweigh the drawbacks, making it a viable option for sustainable energy production.



ACTIVITY 15

“WORLD ENVIRONMENT DAY WALK”

**Organized By:
The Department of
Psychology, DSE**



The primary objective of this event was to inspire students to take proactive steps toward protecting the environment and to demonstrate the importance of collective action in addressing environmental issues. This initiative also aimed to align with Sustainable Development Goals SDG-13 (Climate Action) emphasizing the university's commitment to global environmental goals. By engaging in this walk, students had the opportunity to express their commitment to environmental stewardship and to showcase their creativity in promoting green practices.



ACTIVITY 16

“SUSTAINABILITY & RESEARCHING A RENEWABLE RESOURCE”

**Organized By:
The Department of
Accounting and Finance,
DSE**



Department of Accounting and Finance, under the Society of Accounting, Finance, and Economics (SAFE), with the collaboration DSE at Capital University of Science and Technology, organized an "Awareness Walk on Sustainability & Researching Renewable Resources" was led by Dr. Anam Tariq and Ms. Sadaf Adalat. The purpose of the walk was to provide students with awareness of the SDGs and the importance of these goals in academics especially, environmental sustainability and economic sustainability which play a pivotal role in the nation's development journey.



ACTIVITY 17

“THEMED ACTIVITY ON SUSTAINABLE TRANSPORTATION”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**



ASCE and ACE hosted a themed activity focused on sustainable transportation. The event aimed to raise awareness about the applicability and benefits of sustainable transport solutions. Attendees engaged with exhibits at a themed desk, explored an interactive awareness wall, and participated in an insightful awareness walk. The event showcased innovative approaches to sustainable transportation, encouraging participants to contribute to a greener future.

ACTIVITY 18

“SAFETY GUIDELINES REGARDING GRID STATIONS AND ELECTRICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



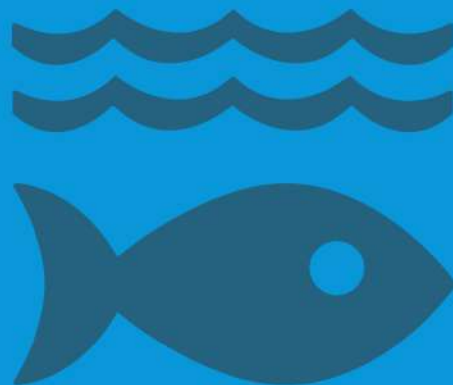
The report discusses the importance and operations of grid stations, which are critical infrastructure for the transmission and distribution of electricity. Grid stations act as storage and transfer units, connecting power plants to homes and industries.





SDG 14:

LIFE BELOW WATER





LIST OF ACTIVITIES

01 Poster competition on Antibiotic Awareness Day

02 Science Olympiad

03 FM Talk on WorldWater Day

04 One Day Trip to Islamabad Wildlife Management Board

05 Hazardous Material Management in the Chemical Industry (BASF)

ACTIVITY 01

“POSTER COMPETITION ON ANTIBIOTIC AWARENESS DAY”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The event aimed to raise awareness about the responsible use of antibiotics and the growing concern of antibiotic resistance. The competition was divided into two categories: Handmade and Digital, accommodating a total of 64 groups who participated enthusiastically. A-Block corridor was transformed into an educational gallery, as all 64 posters were beautifully displayed. These posters portrayed the importance of antibiotics, the consequences of misuse, and the critical need for responsible antibiotic use.

ACTIVITY 02

“SCIENCE OLYMPIADS”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The main theme of the event was “Science for the betterment of society” to give ideas on how science plays its role for the betterment of society. The event featured the students from 10 different educational institutes. They showcased more than 40 innovative models and posters. Participants who secured first, second and third position were awarded with cash prizes. The posters and models showcased the incredible ways science can improve our society. It was a step towards educational tools and technologies to enhance learning experiences and initiatives promoting STEM (Science, Technology, Engineering, and Mathematics) education.

ACTIVITY 03

“FM TALK ON WORLD WATER DAY”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



On World Water Day, the Knowledge Dissemination Club, Genix Society hosted a dynamic FM talk featuring Ms. Damisha Salim, an environmentalist and Mr. Sami Ullah Jan. They passionately emphasized the need for collective action to conserve water resources and address water scarcity. The FM talk served as a platform for raising awareness about World Water Day's significance and encouraging proactive measures to safeguard this vital resource. Throughout the discussion, the Club lead, facilitated an engaging dialogue, fostering collaboration among participants. The event demonstrated a commitment to environmental stewardship and fostering discussions on global issues.

ACTIVITY 04

“ONE DAY TRIP TO ISLAMABAD WILD LIFE MANAGEMENT BOARD”

**Organized By:
The Department of
Bioinformatics and
Biosciences, DSE**



The Department of Bioinformatics and Biosciences, GENIX Society organized a "One Day Trip to Islamabad Wildlife Management Board," which included trekking on Margalla Hills Track-5. The journey was filled with fun and memories for both students and faculty members. During the trip, students, accompanied by faculty members, hiked Margalla Hills Track-5, unveiling nature's marvels along the way. At the Islamabad Wildlife Management Board, they attended a lecture on biodiversity awareness and gained valuable field exposure. The day concluded with an executive lunch. Overall, it was an incredible experience that combined education and adventure.

ACTIVITY 05

“HAZARDOUS MATERIAL MANAGEMENT IN THE CHEMICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



BASF is a chemical industry operating in Pakistan for over 50 years and it produces a wide range of chemicals like amines, solvents, resins, and glues. The project contributes to environmental sustainability by promoting life under water. (SDG 14).



SDG 15:

LIFE ON LAND





LIST OF ACTIVITIES

- | | | | |
|-----------|--|-----------|---|
| 01 | Awareness Walk for a 'Greener Future' | 10 | Interactive Session on Eco-Smart Education |
| 02 | Plantation Drive in SDGs Garden | 11 | Climate Governance – Insights on Digital Transformation in the Amazon Forrest |
| 03 | Awareness Walk for Reduction of Plastic Bags | 12 | One Day Trip to Islamabad Wildlife Management Board |
| 04 | Poster competition on Antibiotic Awareness Day | 13 | Forestry and Logging Operations |
| 05 | FM radio session on "Polio Awareness Day" | 14 | Hazardous Material Management in the Chemical Industry (BASF) |
| 06 | Science Olympiad | 15 | Health and Safety in Hydel Power Plants |
| 07 | World Osteoporosis Day Awareness Desk | 16 | Nuclear Power Plant |
| 08 | Visit to National Tea and Hi-value Crop Research Institute | 17 | Themed Activity on "Green Infrastructure" |
| 09 | Clean Drive Activity | 18 | World Environment Day Walk |

ACTIVITY 01

AWARENESS WALK FOR A 'GREENER FUTURE'

**Organized By:
The Department of
English, DSE**



This event successfully brought faculty members and students together to advocate for environmental consciousness and encourage actionable steps toward a cleaner, greener, and more sustainable world. The collective efforts during the walk served as 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.

ACTIVITY 02

“PLANTATION DRIVE IN SDGS GARDEN”

**Organized By:
The Directorate of
Sustainability and
Environment**



the Washington Accord (WA) Team conducted a comprehensive assessment of the Faculty of Engineering Departments and their Outcome-Based Education (OBE) activities at Capital University of Science & Technology (CUST). Following this assessment, the Directorate of Sustainability and Environment extended an invitation to the WA Team to lead a plantation drive in the SDGs Garden. This collaborative effort not only showcases CUST's dedication to foster sustainable educational practices but also emphasizes the university's commitment for implementing the SDGs on campus, including those related to climate action, biodiversity, sustainable communities, quality education, and international partnerships, marking CUST's foremost commitment to global sustainability.



ACTIVITY 03

“AWARENESS WALK FOR REDUCTION OF PLASTIC BAGS”

**Organized By:
The Directorate of
Sustainability and
Environment (DSE)**



The Directorate of Sustainability and Environment (DSE) organized a walk with a focus on 'Sustainable Consumption and Production' to raise awareness about the importance of eliminating plastic litter. The walk brought together guests of honor, faculty members, and students. Slogans and messages were prominently displayed along the route to educate and raise awareness among participants. The event served as an excellent motivational platform to inspire individuals to take meaningful steps toward a cleaner and more sustainable environment.

ACTIVITY 04

“POSTER COMPETITION ON ANTIBIOTIC AWARENESS DAY”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The event aimed to raise awareness about the responsible use of antibiotics and the growing concern of antibiotic resistance. The competition was divided into two categories: Handmade and Digital, accommodating a total of 64 groups who participated enthusiastically. A-Block corridor was transformed into an educational gallery, as all 64 posters were beautifully displayed. These posters portrayed the importance of antibiotics, the consequences of misuse, and the critical need for responsible antibiotic use.

ACTIVITY 05

FM RADIO SESSION ON “POLIO AWARENESS DAY”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The session featured guest speakers Dr. Rizwana Ghani, an esteemed Biochemistry Expert and Academic Achiever, alongside Dr. Asad Anwar, aiming at educating the participants about polio-virus disease. The comprehensive discussion covered the causative agent, signs, symptoms, incidence rates, and preventive measures for polio. It was designed to engage a diverse audience to educate them dedicated to eradicating polio. The session highlights how disease prevention, particularly through polio vaccination, aligns with the broader vision of SDG 15 by contributing to the health of terrestrial ecosystems.

ACTIVITY 06

“SCIENCE OLYMPIADS”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The main theme of the event was “Science for the betterment of society” to give ideas on how science plays its role for the betterment of society. The event featured the students from 10 different educational institutes. They showcased more than 40 innovative models and posters. Participants who secured first, second and third position were awarded with cash prizes. The posters and models showcased the incredible ways science can improve our society. It was a step towards educational tools and technologies to enhance learning experiences and initiatives promoting STEM (Science, Technology, Engineering, and Mathematics) education.

ACTIVITY 07

“WORLD OSTEOPOROSIS DAY AWARENESS DESK”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The aim was to raise awareness about the growing disease i.e., Osteoporosis, focusing on true and validated facts and figures. Furthermore, lotus seed packets were distributed among all the faculties, a symbol of organic Calcium source to promote the usage of such sources as an alternative to artificially prepared supplements. The campaign underscores the link between healthy bones and a thriving life on land. By promoting awareness about osteoporosis prevention, the Awareness Desk contributes to SDG 15's mission of ensuring the sustainable use of land resources and promoting the well-being of both individuals and the ecosystems they inhabit.

ACTIVITY 08

“VISIT TO NATIONAL TEA AND & HI-VALUE CROP RESEARCH INSTITUTE”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



Students of Department of Bioinformatics & Biosciences had the privilege of visiting the National Tea and Hi-value Crop Research Institute in Shinkiari, Mansehra. The purpose of the visit was to gain insights into the ongoing research activities, advancements, and contributions of the institute in the field of tea and hi-value crop. The institute is equipped with state-of-the-art research facilities, including laboratories, experimental fields, and greenhouses. It not only provided insights into the institute's research activities but also highlighted its alignment with Sustainable Development Goal 15 - Life on Land. SDG 15 focuses on protecting, restoring, and promoting sustainable use of terrestrial ecosystems, combating desertification, and halting biodiversity loss.

ACTIVITY 09

“CLEAN DRIVE ACTIVITY”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



The objective of this event is to do contributions in cleaning the surroundings and covering the major SDGs. The activity complies SDG 15 which is Life on Land covers habitat restoration to Clean up natural areas like forests and parks removes invasive species and debris, allowing for habitat restoration and biodiversity conservation. The cleanup activity served as a platform to raise awareness about the importance of preserving natural habitats and the detrimental effects of littering. The activity was so inspiring because many young minds explored the positive impacts of cleanliness, also cultivated a sense of responsibility and activism among the youth, fostering a brighter, cleaner future for our environment.

ACTIVITY 10

"INTERACTIVE SESSION ON ECO- SMART EDUCATION"

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**

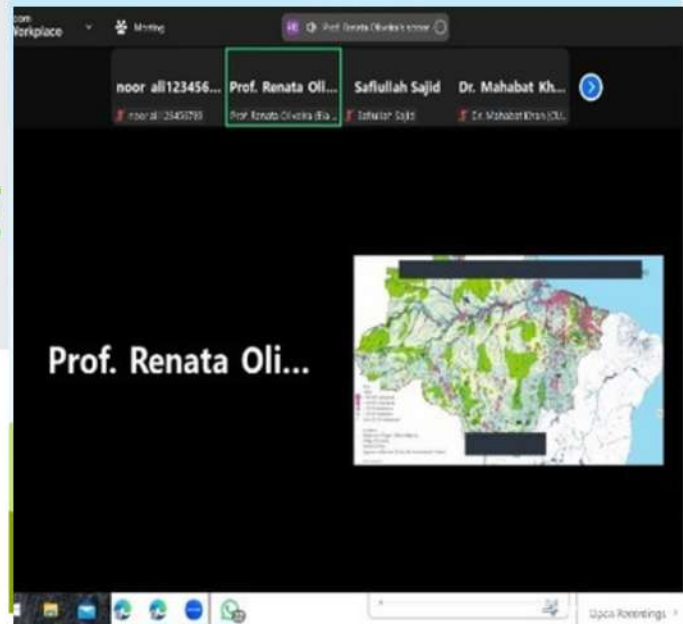


An eco-smart session on reducing waste aligns seamlessly with Sustainable Development Goal 15 (SDG 15), "Life on Land," by addressing critical issues related to land degradation, biodiversity loss, and sustainable land use. By promoting waste reduction strategies such as recycling, proper disposal, and sustainable practices, the session contributes to preventing further land degradation and supports the conservation of terrestrial ecosystems. Emphasizing the connection between waste reduction and forest conservation, combating desertification, and fostering community engagement and education, the session becomes a practical initiative in achieving SDG 15's overarching aim of protecting and restoring the health of life on land.

ACTIVITY 11

“CLIMATE GOVERNANCE – INSIGHTS ON DIGITAL TRANSFORMATION IN THE AMAZON FORREST”

**Organized By:
The Department of
Mechanical Engineering,
DSE**



The guest speaker was Dr. Renata Oliveira from State University of Pará, Brazil. The webinar aimed to educate participants about the importance of climate governance and the role of digital transformation in preserving the Amazon rainforest. Dr. Oliveira discussed how technologies like satellite imagery and remote sensing are used to monitor deforestation in real-time. She emphasized the collaboration between local communities, governments, and international organizations in enhancing climate governance and the importance of involving indigenous communities.

ACTIVITY 12

“ONE DAY TRIP TO ISLAMABAD WILD LIFE MANAGEMENT BOARD”

**Organized By:
The Department of
Bioinformatics &
Biosciences, DSE**



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ACTIVITY 13

“FORESTRY AND LOGGING OPERATIONS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This report examines the occupational health and safety aspects of forestry and logging operations. It highlights the environmental risks associated with these activities, such as deforestation, forest fires, and their impact on biodiversity, water quality, and climate change. The report also discusses the major occupational health hazards faced by workers, including chainsaw accidents, vehicle incidents, and slip-and-fall accidents, using case studies.

ACTIVITY 14

“HAZARDOUS MATERIAL MANAGEMENT IN THE CHEMICAL INDUSTRY”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



BASF is a chemical industry operating in Pakistan for over 50 years and it produces a wide range of chemicals like amines, solvents, resins, and glues. The project contributes to environmental sustainability by promoting life on land (SDGs 15).

ACTIVITY 15

“HEALTH AND SAFETY IN HYDEL POWER PLANTS”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

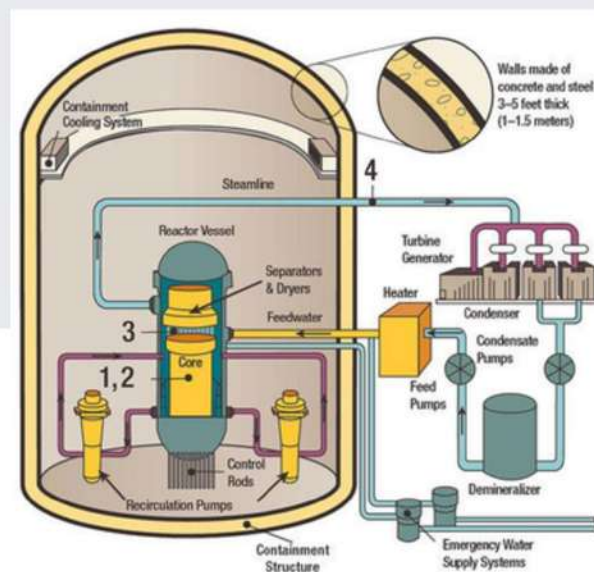


Hydropower is a clean and renewable energy source, but it also poses potential risks to workers, communities, and the environment. This report delves into the crucial aspects of health and safety in hydel power plants. It systematically identifies and assesses various hazards, ranging from physical and electrical to chemical and environmental. Implementing robust safety protocols and procedures, utilizing advanced technologies, and fostering a strong safety culture are emphasized as key strategies to mitigate these risks. The report also highlights the importance of regulatory compliance, community engagement, and environmental impact management for the sustainable operation of hydel power plants. By addressing these critical areas, this report aims to contribute to the development of a safer and more resilient hydropower industry.

ACTIVITY 16

“NUCLEAR POWER PLANT”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



This project report provides an overview of nuclear power plants, their working, types of reactors, safety measures, and the impact on sustainable development. It discusses the case studies of the Chernobyl and Fukushima nuclear disasters, as well as the management of nuclear waste. The report aims to address the misconceptions about the health and safety aspects of nuclear power.

The report concludes by emphasizing the safety and environmental benefits of nuclear power, underscoring its potential to provide clean, affordable, and reliable energy. It acknowledges the public's concerns but argues that the advantages of nuclear power outweigh the drawbacks, making it a viable option for sustainable energy production.

ACTIVITY 17

“A THEMED ACTIVITY ON GREEN INFRASTRUCTURE”

**Organized By:
The Directorate of
Sustainability and
Environment**



DSE, in collaboration with ACE (Association of Civil Engineers) and ASCE (American Society of Civil Engineers), organized a themed activity on "Green Infrastructure." Themed desks adorned with informative posters and panaflex settings drew in students eager to explore the numerous facets of green infrastructure, from conservation areas to permeable pavements, emphasizing the crucial role these elements play in bolstering natural assets like wetlands, forests, and urban trees. As participants embarked on themed walks, the significance of nature-based solutions and engineered assets in mitigating climate change impacts resonated strongly, underscoring the event's alignment with SDG 15 focused on life on land.

ACTIVITY 18

“WORLD ENVIRONMENT DAY WALK”

**Organized By:
The Department of
Psychology, DSE**



The primary objective of this event was to inspire students to take proactive steps toward protecting the environment and to demonstrate the importance of collective action in addressing environmental issues. This initiative also aimed to align with SDG-15 (Life on Land), emphasizing the university's commitment to global environmental goals. By engaging in this walk, students had the opportunity to express their commitment to environmental stewardship and to showcase their creativity in promoting green practices.



SDG 16:

PEACE, JUSTICE AND STRONG INSTITUTIONS



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



LIST OF ACTIVITIES

- 01** Paint for Palestine Desk and Solidarity Walk for Palestine
- 02** Anti-Corruption and Compliance Strategies for Business
- 03** How Corporate Entities Can Contribute to SDG 16
- 04** Al-Quds (An informative session on current activities in Gaza)
- 05** Fundamentals and Practices of Islamic Banking in the Digital Era
- 06** Seminar on Peace Justice and Strong Institutions
- 07** Policy on Protection Against Sexual Harassment in Higher Education Institution
- 08** Awareness walk on Peace Justice and Strong Institutions
- 09** Seminar and walk by ANF

ACTIVITY 01

"PAINT FOR PALESTINE DESK AND SOLIDARITY WALK FOR PALESTINE"

**Organized By:
The Faculty of Pharmacy,
DSE**



Pharma Spark Social Welfare Club organized a solidarity event condemning Israeli atrocities in compliance with target 16.b which says promote non-discriminatory laws and policies for sustainable development. Students from Batch 213 orchestrated a day-long program expressing their views on the Palestine crisis through a solidarity walk. The participants, filled with passion and dedication, engaged in various activities, including a "PAINT FOR PALESTINE" desk set up. Quotations were recorded for a video message uploaded on social media platforms, amplifying the voice in support of Palestine. Online media uploads and ongoing hashtag campaigns continue to promote the cause.

ACTIVITY 02

“ANTI-CORRUPTION AND COMPLIANCE STRATEGIES FOR BUSINESS”

**Organized By:
The Department of
Management Sciences,
DSE**



The seminar focused on anti-corruption and compliance strategies for businesses, aligning with the target 16.5 which says to reduce corruption in all their forms. The esteemed guest speaker, an expert in the field, shared insights on implementing ethical practices and transparency. Emphasis was placed on internal control systems, fostering integrity, and collaboration to combat corruption. This aligns businesses with SDG 16, contributing to a just society, enhancing operational efficiency, building trust, and ensuring sustainable success. The guest speaker received a Shield as a souvenir, symbolizing a significant step towards a corruption-free world in line with SDG 16's global aspirations.

ACTIVITY 03

"HOW CORPORATE ENTITIES CAN CONTRIBUTE TO SDG16"

**Organized By:
The Department of
Management Sciences,
DSE**



The seminar, "How Corporate Entities Can Contribute to SDG 16," addressed businesses' role in advancing peace and justice. Led by a corporate ethics expert, Dr. Tariq Ali, provided actionable strategies for integrating SDG 16 principles. Emphasizing anti-corruption measures, transparent supply chains, and ethical practices, businesses contribute to community empowerment, resilience, and trust- building aligning with the target 16.5 which says to reduce corruption in all their forms. The guest speaker received a shield, symbolizing progress toward realizing SDG 16's aspirations for a corruption-free future.



ACTIVITY 04

“AL-QUDS (AN INFORMATORY SESSION ON CURRENT ACTIVITIES IN GAZA)”

**Organized By:
The Capital Arts and
Literary Club, DSE**



The seminar focused on the history of Palestine and the current situation in Gaza, aligning with SDG 16, which aims to promote peace, justice, and strong institutions. The guest speaker played a crucial role in shedding light on the complexities of the region, offering insights into the challenges faced by the people of Palestine in compliance with target 16.b which says promote non-discriminatory laws and policies for sustainable development. The speaker emphasized the importance of fostering dialogue and understanding to contribute to a more peaceful coexistence. Towards the end of the event, shields were given to the Guest Speaker, acknowledging their engagement in discussions related to SDG 16 and the ongoing issues in Palestine and Gaza.



ACTIVITY 05

“FUNDAMENTALS AND PRACTICES OF ISLAMIC BANKING IN THE DIGITAL ERA”

**Organized By:
The Department of
Management Sciences,
DSE**



In a captivating session echoing SDG 16's call for accountable and transparent institutions, aligning with the target 16.6. The Guest illuminated the evolving landscape of Islamic banking in the digital age. With captivating anecdotes and insightful data, he painted a picture of financial inclusion and ethical finance, dismantling preconceived notions and highlighting the role of robust digital infrastructure in building trust and transparency. Beyond the session, this intellectual exchange left a lasting mark, not just on financial literacy, but also on the importance of open dialogue and collaboration in building a just and equitable society, echoing the core principles of SDG 16. At the end of the event, the guest speaker was presented a shield as a symbol of appreciation.



ACTIVITY 06

“PEACE JUSTICE AND STRONG INSTITUTIONS”

**Organized By:
The Department of
Management Sciences,
DSE**



The event, a passionate call to action aligned with the core principles of SDG 16, aimed to raise awareness about the critical role of robust institutions and equitable access to justice in fostering sustainable peace in accordance with the target 16.10. Throughout his talk, he weaved personal anecdotes with compelling data, highlighting the devastating impact of weak institutions on social and economic development. He urged the audience to become active participants in building a just and peaceful world, emphasizing the importance of individual responsibility and collective action. His call to action resonated deeply, leaving the audience inspired to contribute to the creation of a more equitable and peaceful future.



ACTIVITY 07

“POLICY ON PROTECTION AGAINST SEXUAL HARASSMENT IN HIGHER EDUCATION INSTITUTION”

**Organized By:
The Department of
Psychology, DSE**



The Department of Psychology organized a seminar titled "Policy on Protection Against Sexual Harassment in Higher Education Institutions", aligning with the target 16.1.3. Led by Ms. Annum Tanveer and Ms. Asima Munawar, the seminar aimed to raise awareness about fundamental rights to work and study without fear of harassment. They provided insights into the nature of sexual harassment, relevant policies, and procedural steps for lodging complaints. The seminar covered documenting incidents, submitting complaints, ensuring privacy, and disciplinary actions. The event successfully heightened awareness, equipping participants with crucial information and resources to address sexual harassment.



ACTIVITY 08

“SDG 16- PEACE JUSTICE AND STRONG INSTITUTIONS AWARENESS WALK”

**Organized By:
The Department of
Management Sciences,
DSE**



SDG 16 highlights the importance of Peace, Justice, and Strong Institutions for all, a need that we attempted to highlight with our Awareness Walk in accordance with target 16.b which says promote non-discriminatory laws and policies for sustainable development. The walk began at CUST D-block and ended at CUST A-block. Along the way, students and walk participants held banners alluding to SDG 16. The Awareness Walk for SDG 16 demonstrated the power of community action in promoting peace, justice, and strong institutions. The event not only highlighted the importance of these goals but also inspired collective action towards achieving them.



ACTIVITY 09

“SEMINAR AND WALK BY ANF”

**Organized By:
The Department of
Psychology, DSE**



The Psyverse Society of the Department of Psychology organized a "Talk & Walk" campaign in collaboration with the Anti-Narcotics Force (ANF) to raise awareness about the target 16.2 which says end abuse, exploitation, trafficking. The campaign aimed to educate the community about the dangers of drugs and encourage open discussions and collective action towards a drug-free society. The event included a presentation by Dr. Zara Kiran, who discussed types of drugs, their causes, and harmful effects, engaging students with visual aids. Participants created charts and banners with messages like "Say No to Drugs" and "Drug-Free Pakistan" and walked across the campus to spread the message.





SDG 17:

PARTNERSHIPS FOR THE GOALS



17 PARTNERSHIPS FOR THE GOALS



LIST OF ACTIVITIES

01 Design and Implementation of Wearable Device for Tremors Suppression

02 Health and Safety in Oil Refineries

03 DC motor speed control

04 Enhance the Partnership for Sustainability Development

ACTIVITY 01

“DESIGN AND IMPLEMENTATION OF WEARABLE DEVICE FOR TREMORS SUPPRESSION”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



The project aims to develop an innovative wearable device that effectively alleviates the debilitating effects of tremors in individuals affected by conditions like Parkinson's disease. The device will leverage advanced sensor technology and motion analysis algorithms to detect and respond to tremors in real-time, minimizing their disruptive impact on the user's daily activities and overall quality of life. In accordance with the target 17.8, the project fully operationalizes the technology bank and science - technology and innovation capacity building mechanism in Pakistan under the umbrella of IEEE (Institute of Electrical and Electronic Engineers).

ACTIVITY 02

“HEALTH AND SAFETY IN OIL REFINERIES”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**

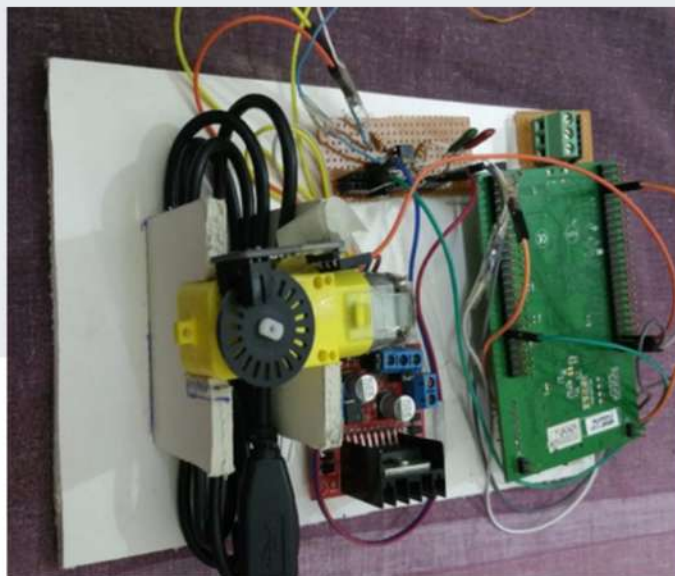


The project in the form of case study was carried out by the department of electrical engineering focusing on the SDG 17.18 regarding availability of timely and reliable data of the geographical feature like Health and Safety in Oil Refineries in National Context. This report explores occupational health and safety (OHS) in the oil refinery sector, highlighting the complex measures implemented to safeguard worker well-being amidst inherent hazards. The report examines two major incidents: The Amuay Refinery explosion (2012) and the Buncefield oil storage terminal incident (2005). These case studies reveal systemic issues, such as inadequate maintenance and safety protocol failures, serving as a foundation for developing preventive measures, under the supervision of IEEE (Institute of Electrical and Electronic Engineers).

ACTIVITY 03

“DC MOTOR SPEED CONTROL”

**Organized By:
The Department of
Electrical and Computer
Engineering, DSE**



Department of Electrical Engineering, being a partner of IEEE carried out a project which focuses on DC motor speed control using a digital Proportional-Integral-Derivative (PID) controller with Arduino. The PID controller regulated the motor speed by generating appropriate control signals based on the difference between desired and actual RPM. Experiments showed the digital PID controller provided faster response, reduced error, and improved stability compared to conventional methods. While the system demonstrated functionality, it had limitations in achieving the desired PWM and RPM values accurately. The project contributes to environmental sustainability by promoting energy-efficient motor control and user education on sustainable practices. The project has the bright prospects of having collaborations with the industry that will be sought in future.



ACTIVITY 04

“ENHANCE THE PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT”

**Organized By:
The Department of
Accounting and Finance,
DSE**



The seminar on "Enhancing Partnerships for Sustainable Development (SDG Goal 17)" by Mr. Hassan Nisar, Director Worthwhile Builder, who emphasized the importance of global collaborations in achieving sustainable development. Key topics included international cooperation, multi-stakeholder partnerships, resource mobilization, and the role of innovation and technology. Mr. Nisar provided real-world examples of successful partnerships and strategies for effective collaboration. The event, organized and supervised by Dr. Jaleel Ahmed, concluded with a lively Activity session, offering participants valuable insights and practical strategies for enhancing partnerships and advancing sustainable development goals.





“DSE GENERAL EVENTS”



“LIST OF ACTIVITIES”

- | | | | |
|-----------|---|-----------|--|
| 01 | Inauguration Ceremony of
SDG Wall | 07 | DSE Booth |
| 02 | Zindigi Prize National
Finals 2023 | 08 | DSE Booth Marketing Gala |
| 03 | Inauguration ceremony of
month of sustainability | 09 | SDGs Expo 2024 |
| 04 | SDG Discovery Symposium | 10 | Health and Safety
Awareness Training |
| 05 | Sustainability hunt | 11 | Closing Ceremony of
Month of Sustainability |
| 06 | Introductory seminar on all
SDGs | 12 | Young's Ambassadors
Training session |



ACTIVITY 01

“INAUGURATION CEREMONY OF SDG WALL”

**Organized By:
The Directorate of
Sustainability and
Environment**



The event at Capital University of Science & Technology featured the inauguration of an SDGwall dedicated to the Sustainable Development Goals (SDGs). The SDGs, comprising 17 global objectives established by the United Nations in 2015, address various global challenges, including poverty, inequality, climate change, and more. The respected guest, Prof. Dr. Muhammad Mansoor Ahmed (Vice Chancellor), Dr. Imtiaz Ali Taj (Dean FOE), and Dr. Ishtiaq Hassan (Director DSE) performed the ribbon-cutting, marking the official inauguration of the SDG wall. The event's purpose was to raise awareness about the SDGs and highlight the university's commitment to these goals. It symbolized the university's dedication to promoting sustainability and equity on a global scale.



All SDGs



ACTIVITY 02

“ZINDIGI PRIZE NATIONAL FINALS 2023”

**Organized By:
The Directorate of
Sustainability and
Environment**



The Directorate of Sustainability and Environment (DSE) was invited to attend Zindigi Prize National Finals 2023. The event targeted all 17 sustainable goals. The event majorly focused on the Startup teams who made their way through the National Finals of Zindigi Prize. On behalf of Director DSE, Engr.Sajjad Khan Niazi (Research Associate / Secretary DSE) attended the event.

CEO Zindigi Prize Mr. Nouman Azhar gave the insights of Zindigi Prize and told the importance of such events. The pitching of start-up ideas soon started, and the major focus of the ideas was on the environmental sustainability. President and CEO JS bank Mr. Basir Shamsie gave the insight details of the new initiative of Zindigi Commercial Bank and Zindigi Prize.



All SDGs



ACTIVITY 03

“INAUGURATION CEREMONY OF MONTH OF SUSTAINABILITY”

**Organized By:
The Directorate of
Sustainability and
Environment**



In a vibrant inauguration ceremony, which was conducted by the Director of DSE for the launching of a month of sustainability, participants will engage in diverse activities representing all 17 United Nations Sustainable Development Goals (SDGs). From clean energy workshops to waste reduction campaigns, gender equality sessions, and biodiversity conservation efforts, the event embodied a holistic approach. The highlight was a spirited sustainability hunt, integrating challenges for each SDG and fostering collaboration. As the month progresses, the community will demonstrate a shared commitment to building a more equitable and environmentally conscious future, encapsulating the spirit of global cooperation needed to achieve the SDGs.



All SDGs



ACTIVITY 04

“SDG DISCOVERY SYMPOSIUM”

**Organized By:
The Directorate of
Sustainability and
Environment**



Amidst an atmosphere of anticipation, students proudly showcased their allocated Sustainable Development Goals (SDGs) at individual desks, creating a dynamic tableau for the director's inspection. As the director strolled from desk to desk, each student passionately outlined the ongoing and planned activities associated with their specific SDGs. This interactive presentation not only demonstrated the students' commitment to their assigned SDGs but also provided a comprehensive overview of the diverse initiatives contributing to the university's collective dedication to fostering positive global change.



All SDGs



ACTIVITY 05

“SUSTAINABILITY HUNT”

**Organized By:
The Directorate of
Sustainability and
Environment**



A few days prior to the engaging sustainability hunt held at the university, registrations took place in front of the E and F blocks. Prospective participants eagerly signed up for the event, expressing their interest for the hunt. The university's sustainability hunt seamlessly combined fun and education, challenging students to discover and understand the Sustainable Development Goals (SDGs) hidden across the campus. Participants then transitioned to planting trees, emphasizing their role as stewards of the environment. The hunt took a tasty turn as students sourced edible items aligned with sustainability, promoting responsible consumption.



All SDGs



ACTIVITY 06

“INTRODUCTORY SEMINAR ON ALL SDGS”

**Organized By:
The Directorate of
Sustainability and
Environment**



The Department of Electrical and Computer Engineering at Capital University of Science & Technology organized a seminar on awareness of 'Sustainable Development and Goals.' The seminar was designed with the objective of enlightening participants on the significance of Sustainable Development Goals (SDGs) and providing insights into effective implementation strategies.



All SDGs



ACTIVITY 07

“DSE BOOTH”

**Organized By:
The Directorate of
Sustainability and
Environment**



The Career Expo 2023 Next Gen Summit hosted at Capital University of Science & Technology illuminated a significant focus on sustainability, prominently supported by the presence of DSE (Development for a Sustainable Environment). At the heart of this event was DSE's booth, a vibrant hub advocating for sustainability through innovative recycling art models. These visually compelling exhibits not only underscored the artistic aspect of recycling but also served as educational tools aligning with sustainable development goals (SDGs). To ensure visitors gained comprehensive insights, our adept SDGs ambassadors were steadfastly available, providing vital information on sustainable practices.



All SDGs



ACTIVITY 08

“DSE BOOTH MARKETING GALA”

**Organized By:
The Directorate of
Sustainability and
Environment**



The DSE (Department of Sustainable Environment) booth at the Marketing Gala 2024 in Capital University of Science and Technology was a dynamic showcase promoting Sustainable Development Goal (SDG) 12 - Responsible Consumption and Production. The booth engaged attendees with informational displays, community registration opportunities, and a unique initiative where students crafted captivating art pieces using recyclable materials. These handmade artworks, representative of SDG 12's principles, were not only visually striking but also sold to students, guests, and teachers, serving as both a means of fundraising and spreading awareness.



All SDGs



ACTIVITY 09

“SDGS EXPO 2024”

**Organized By:
The Directorate of
Sustainability and
Environment**



The SDGs Expo 2024 successfully showcased the university's innovative approaches to sustainability, reflecting a strong commitment to advancing environmental stewardship.

Through a competitive display of projects, the event highlighted the remarkable work of the SDG ambassadors, who demonstrated creativity and depth in their initiatives.

The diverse array of projects presented at the expo illustrated the practical applications of sustainability concepts and the ambassadors' dedication to addressing global challenges.



All SDGs



ACTIVITY 10

“HEALTH AND SAFETY AWARENESS TRAINING”

**Organized By:
The Directorate of
Sustainability and
Environment**



A few days prior to the engaging sustainability hunt held at the university, registrations took place. Health and safety awareness training for lab staff was held in the department of Electrical and Computer Engineering and on September 22, 2023. It was arranged by the Health and safety committee of the Electrical Engineering Department. Health and safety In-charge Mr. Muhammad Moin Qasim gave training to lab engineers and lab technicians. All lab staff was briefed about safety precautions for different labs, operation of fire extinguishers and use of First Aid Box.



All SDGs



ACTIVITY 11

“CLOSING CEREMONY OF MONTH OF SUSTAINABILITY”

**Organized By:
The Directorate of
Sustainability and
Environment**



DSE concluded the ‘Month of Sustainability’ in a magnificent closing ceremony, a celebration of the collective efforts towards the 17 SDGs. Participants were honored with certificates and appreciation letters, recognizing their dedication to various impactful activities. The worthy recognition came from distinguished faculty members including Ms. Rabia Habib (MS), Ms. Shumaila (ME), Uzma Mushtaq (PSY), Dr. Arshia (BS/BI), Ms. Nitasha Gohar (Pharm), and Prof. Dr. Ishtiaq Hassan (DSE). Their collective acknowledgment added a significant touch to the ceremony, reinforcing the commitment to sustainable development, capturing a month-long journey of determination, and leaving a lasting impact.



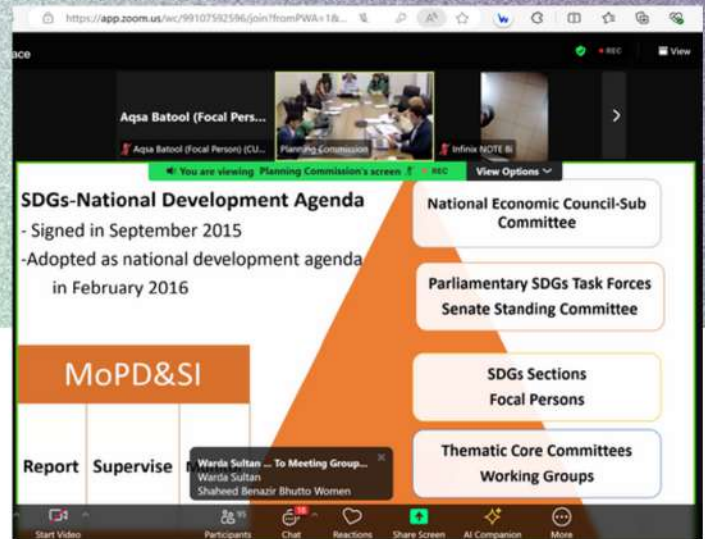
All SDGs



ACTIVITY 12

“YOUNG’S AMBASSADORS TRAINING SESSION”

**Organized By:
The Ministry of Planning,
Development, and Special
Initiatives, Islamabad**



The Ministry of Planning, Development, and Special Initiatives Islamabad, in collaboration with UNICEF, has launched an initiative called “Youngs Initiative”. As part of this program, all ambassadors across Pakistan participated in a 4-days online training session. The training was thorough and immersive experience, with 1 hour dedicated to each of the 17 Sustainability and Development Goals. this allowed participants to gain a deep understanding of every goal. The ambassadors were trained how to fulfil these goals on university level first, many action plans were also suggested by the students of Capital University of Science and Technology.



All SDGs