



**DIRECTORATE OF SUSTAINABILITY
AND ENVIRONMENT (DSE)**

2025-26

ANNUAL REPORT

Building a Sustainable Future!



Director

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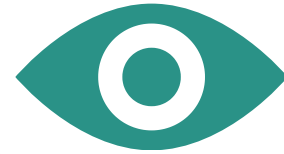


OUR MISSION



MISSION

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



VISION

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



STRATEGY

1. Setting and Infrastructure
2. Energy and Climate Change
3. Waste Minimization
4. Water Conservation
5. Transportation
6. Research and Education
7. Governance & Digitalization





DIRECTOR'S MESSAGE



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

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

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

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



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



Engr. Talha Ahmed
Department of Civil Engineering



Engr. Muhammad Ahmed
Department of Mechanical Engineering



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.





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.



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 unordinary 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.



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 childcare 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 center. CUST Day Care Centre welcomes a nurturing, safe, stable, and inclusive environment where children can learn and grow



WELL-BEING POLICY

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





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 276 universities in the world and among the top seven universities in Pakistan. According to the UI GreenMetric World University Ranking 2025, CUST is the 276th most sustainable university in the world, out of a total of 1477 universities worldwide. Meanwhile Capital University ranks 7th overall in Pakistan.

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



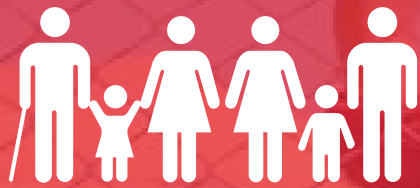


“SUMMARY OF SDGS EVENTS”

SR. NO.	SDG TITLE	NO. OF EVENTS
1	SDG 01: NO POVERTY	12
2	SDG 02: ZERO HUNGER	07
3	SDG 03: GOOD HEALTH AND WELL BEING	13
4	SDG 04: QUALITY EDUCATION	07
5	SDG 05: GENDER EQUALITY	04
6	SDG 06: CLEAN WATER AND SANITATION	04
7	SDG 07: AFFORDABLE AND CLEAN ENERGY	08
8	SDG 08: DECENT WORK AND ECONOMIC GROWTH	02
9	SDG 09: INDUSTRY, INNOVATION, AND INFRASTRUCTURE	10
10	SDG 10: REDUCED INEQUALITIES	09
11	SDG 11: SUSTAINABLE CITIES AND COMMUNITIES	06
12	SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION	06
13	SDG 13: CLIMATE ACTION	03
14	SDG 14: LIFE BELOW WATER	03
15	SDG 15: LIFE ON LAND	06
16	SDG 16: PEACE, JUSTICE, AND INSTITUTIONS	08
17	SDG 17: PARTNERSHIPS FOR THE GOALS	05
	TOTAL NO. OF EVENTS	113

SDG 01

NO POVERTY



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Food and Culture Fest
2	Awareness Walk - International Day for the Eradication of Poverty
3	Beyond the Books: Class-to-Class Awareness Drive
4	Critical Thinking & Values-Based Judgment Session
5	CUST Corporate Submit 2025 - Job Fair
6	Digital Income Opportunities for Local Hosts
7	Entrepreneurial Marketing Gala 2025 - Event Contribution and Stall Management
8	Financial Literacy Program for Orphans
9	Humanity Box: Family-Led Action for Poverty Awareness
10	Public Speaking & Leadership Training for Youth
11	Sustainability Beyond Boundaries: Empowering the Young Leaders for Brighter Futures
12	The Future of E-Commerce: Trends and Opportunities



1 NO POVERTY



ACTIVITY 01: FOOD & CULTURE FEST

Organized By:
The Directorate of Sustainability and Environment
in collaboration with Pharma Spark, & WOH



The Food and Culture Fest organized by the Directorate of Sustainability and Environment (DSE) was aligned with SDG 1: No Poverty and its sub-targets by promoting inclusive participation, resource mobilization, and community support mechanisms. The event contributed to Target 1.1 by generating funds through student-led activities that were allocated to a food drive supporting underprivileged individuals, addressing immediate poverty-related needs. The initiative also aligned with Target 1.3 by functioning as a community-based social support mechanism and with Target 1.a through resource mobilization involving multiple departments. The event concluded with a certificate ceremony acknowledging student contributions, reinforcing institutional commitment to sustainable poverty alleviation and social support systems.





ACTIVITY 02: INTERNATIONAL DAY FOR THE ERADICATION OF POVERTY

Organized By:
The Department of Management Sciences



This event was organized to mark the International Day for the Eradication of Poverty through an Awareness Walk aimed at sensitizing students about poverty, inequality, and social exclusion. The initiative aligned with SDG 1 - No Poverty, particularly Target 1.1 by promoting awareness about ending extreme poverty through youth engagement and social consciousness. It supported Target 1.2 by addressing multidimensional poverty through education, advocacy, and informed dialogue among students. The activity also contributed to Target 1.5 by fostering resilience and a sense of shared responsibility against economic and social vulnerabilities. Through collective participation, the walk strengthened active citizenship, empathy, and community-driven advocacy. The event encouraged students to become socially responsible leaders committed to sustainable and long-term poverty reduction efforts.





ACTIVITY 03: BEYOND THE BOOKS: CLASS-TO- CLASS AWARENESS DRIVE

Organized By:
The Department of Management Sciences



A campus-wide class-to-class sustainability awareness drive was conducted at Capital University of Science and Technology, engaging students from multiple departments. The sessions promoted environmental responsibility and highlighted the link between sustainable practices, economic stability, and community resilience. Discussions focused on mindful consumption, responsible waste management, and climate-conscious decision-making to encourage practical change. The initiative aligned with SDG 1, particularly Target 1.5, by strengthening resilience to environmental and economic challenges through awareness and education. It empowered students to adopt informed choices that support long-term socio-economic and environmental well-being.



1 NO POVERTY



ACTIVITY 04: CRITICAL THINKING & VALUES- BASED JUDGMENT SESSION

Organized By:
The Directorate of Sustainability and Environment



A Critical Thinking and Values-Based Judgment session was conducted for 570 students from Class PG to Class 10 at Islamabad Model School for Girls, Sector I-X, Uparan Gohra, Islamabad. The initiative aimed to nurture analytical thinking, ethical awareness, and sound decision-making skills at an early learning stage. The session was delivered through interactive games and activity-based learning, promoting active participation, teamwork, and practical problem-solving. Students explored concepts of responsible decision-making and values-based judgment in an engaging and inclusive environment. The activity aligned with SDG 1 by promoting empowerment through education and life skills development, strengthening resilience and long-term socio-economic stability among young girls.





ACTIVITY 05: CUST CORPORATE SUMMIT 2025 - JOB FAIR

Organized By:
The Department of Management Sciences



Active participation was ensured in CUST Corporate Summit 2025 to facilitate student engagement with potential employers and career opportunities. Support was provided to batchmates by coordinating their participation, guiding them through the CV submission process, and assisting with interaction with the Career Services Office. The initiative aimed to enhance employability, professional exposure, and access to job opportunities. This activity aligned with SDG 1, particularly Targets 1.2 and 1.4, by promoting access to economic resources and reducing vulnerability through career development. The event contributed to strengthening students' pathways toward financial independence and long-term economic stability.





ACTIVITY 06: DIGITAL INCOME OPPORTUNITIES FOR LOCAL HOSTS

Organized By:
The Directorate of Sustainability and Environment

The composite image illustrates the Mehmaan Nawaz project components. On the left is a circular business model diagram with 'DIGITAL PLATFORM (HUB)' at the center. It connects 'PROPERTY OWNERS (HOSTS)' (listing and verification) and 'END CUSTOMERS (GUESTS)' (booking and experience) through 'FEEDBACK & IMPROVEMENT LOOPS'. The hub also manages 'OPERATIONS TEAM (CENTRAL HUB)' (onboarding, check-in, support) and 'REGIONAL SERVICE HUBS' (scalability & local support). A 'PAYMENT SERVICE PROVIDERS' box handles transactions (PKR). On the right is a sample 'INVOICE' from Mehmaan Nawaz, dated 18/12/2024, issued to Asifullah Khan. Below are two mobile app screens: the top one shows the 'Catalog' and the bottom one displays the Mehmaan Nawaz logo and tagline 'Mehman nawazi done right.' on a dark green background.

As part of the Final Year Project titled Mehmaan Nawaz, a localized short-term rental platform was developed by SDG 01 Ambassador, to enable individual property owners and small-scale hosts to generate structured and sustainable income. Direct engagement with hosts in Islamabad focused on hospitality standards, digital listing practices, pricing awareness, and secure online booking systems. The initiative transformed underutilized residential properties into income-generating assets through transparent processes and fair commission structures. By reducing reliance on informal rental arrangements, the project improved access to stable and regulated financial opportunities. This activity aligned with SDG 1, particularly Targets 1.2 and 1.4, by enhancing income stability, expanding access to economic resources, and strengthening long-term financial resilience among local hosts.





ACTIVITY 07: ENTREPRENEURIAL MARKETING GALA 2025 - EVENT CONTRIBUTION AND STALL MANAGEMENT

Organized By:
The Department of Management Sciences



Active contribution was made to the Entrepreneurial Marketing Gala 2025 at CUST by supporting the management of key activities, including a quiz competition, martial arts performance, and oversight of business stalls. In addition to organizational responsibilities, a Tawa Chicken stall was operated, involving direct customer engagement and sales management, demonstrating practical entrepreneurial skills. The activity promoted hands-on business experience and community-based economic participation. It aligned with SDG 1, particularly Targets 1.2, 1.4, and 1.5, by encouraging income-generating opportunities, economic empowerment, and financial resilience. The initiative contributed to strengthening practical business skills and fostering sustainable economic engagement among students.



1 NO POVERTY



ACTIVITY 08: FINANCIAL LITERACY PROGRAM FOR ORPHANS

Organized By:
The Directorate of Sustainability and Environment



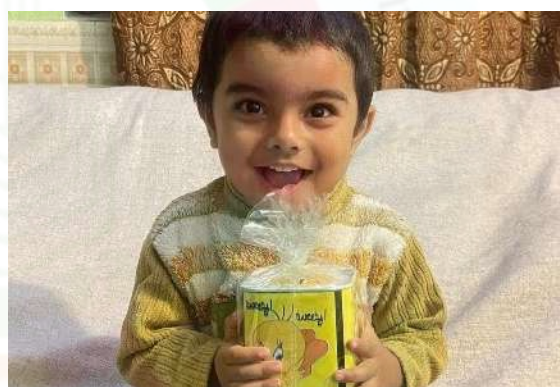
A series of five outreach visits were conducted at Gehwara Aman Orphanage, including its Korang Town and Pakistan Town (Phase 1) branches, to deliver a Financial Literacy Program for boys aged 5 to 17. The initiative focused on building essential money management skills, including saving, budgeting, and responsible spending, while introducing age-appropriate entrepreneurial concepts. Practical training in screen printing was also provided to demonstrate how creative products can be developed and sold as micro-enterprises. The sustained engagement fostered trust, confidence, and an early entrepreneurial mindset among participants. This activity aligned with SDG 1, particularly Targets 1.2 and 1.4, by promoting economic empowerment, skill development, and long-term financial resilience for vulnerable youth.





ACTIVITY 09: HUMANITY BOX: FAMILY-LED ACTION FOR POVERTY AWARENESS

Organized By:
The Directorate of Sustainability and Environment.



The Humanity Box Initiative was introduced as a home-based activity to nurture empathy, responsible sharing, and conscious financial habits among children. Through small, meaningful contributions, families guided children to understand the value of money, collective responsibility, and care for others and the environment, while involving them in decisions about resource use. The initiative promoted early financial awareness and social responsibility in an engaging and practical manner. It aligned with SDG 1, particularly Targets 1.2 and 1.4, by fostering financial literacy, inclusion, and informed decision-making from an early age. The activity laid a foundation for developing responsible individuals capable of contributing to long-term poverty reduction.



1 NO POVERTY



ACTIVITY 10: PUBLIC SPEAKING & LEADERSHIP TRAINING FOR YOUTH

Organized By:
The Directorate of Sustainability and Environment



A class-to-class outreach visit was conducted at Scientific Model School and College, engaging over 200 students from PG to Grade 12 through interactive sessions on public speaking, effective communication, and leadership development, led by a multidisciplinary student team. A subsequent training session at Government School IMSG I-X, Uperan Gurha, engaged approximately 570 female students through activity-based learning focused on confidence building, self-expression, and values-based leadership. Both initiatives emphasized inclusive participation and skill development, particularly for students from underserved backgrounds. The activities aligned with SDG 1, especially Target 1.4, by promoting empowerment and equitable access to personal development opportunities. By strengthening communication and leadership capacities, the initiative contributed to long-term socio-economic resilience and self-confidence among youth.



1 NO POVERTY



ACTIVITY 11: SUSTAINABILITY BEYOND BOUNDARIES: EMPOWERING THE YOUNG LEADERS FOR BRIGHTER FUTURES

Organized By:
The Directorate of Sustainability and Environment



An outreach visit was conducted at Scientific Model School and College, Model Town, engaging over 200 students from PG to Grade 12, with coordination and session delivery supported by a multidisciplinary team of 35 students. The training focused on enhancing public speaking confidence, effective communication, and leadership mindset among students from diverse academic and social backgrounds. Interactive discussions and motivational engagement encouraged self-expression, confidence-building, and belief in personal potential. The initiative provided exposure to developmental opportunities often limited in underserved settings. This activity aligned with SDG 1, particularly Target 1.4, by promoting empowerment, equitable access to personal development, and capacity building to support long-term socio-economic resilience.



1 NO POVERTY



ACTIVITY 12: THE FUTURE OF E-COMMERCE: TRENDS AND OPPORTUNITIES

Organized By:
The Department of Management Sciences

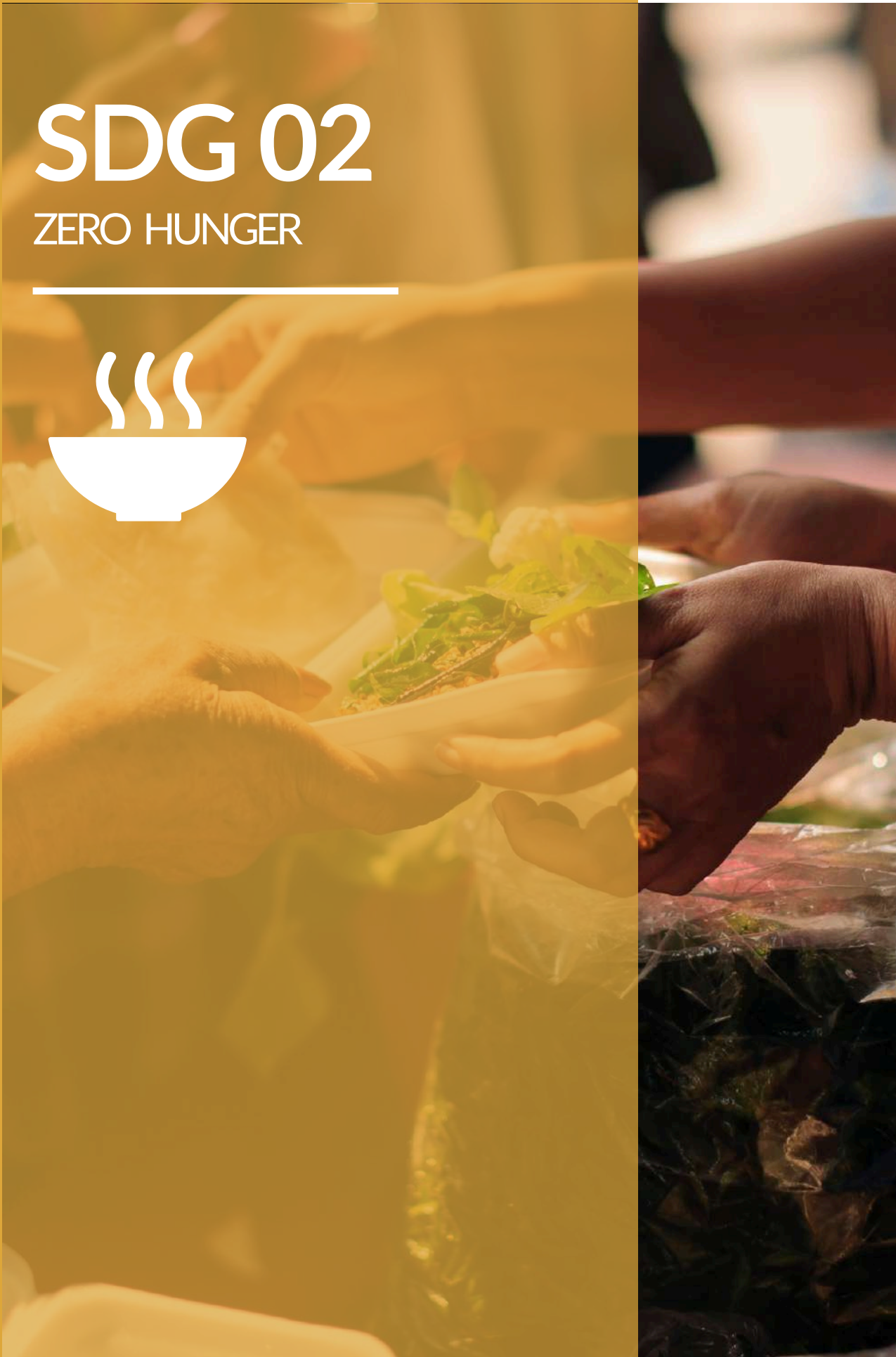


The session titled “The Future of E-Commerce: Trends and Opportunities” was conducted at Capital University of Science and Technology to explore emerging digital trends, technological advancements, and opportunities within the online business ecosystem. The discussion highlighted market dynamics, consumer behavior, and the growing role of digital platforms in modern entrepreneurship. Participants gained insight into how e-commerce can drive economic inclusion, innovation, and job creation in the digital age. The initiative aligned with SDG 1, particularly Target 1.2, by promoting awareness of sustainable income opportunities and strengthening students’ capacity to participate in the digital economy. The session contributed to fostering long-term economic resilience and self-reliance among youth.



SDG 02

ZERO HUNGER



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Food and Culture Fest
2	Food Drive
3	FM Talk on Zero Hunger and Food Security
4	Sustainable cooking competition
5	Awareness Campaign on Food Wastage
6	World Food day
7	Promoting Ecofriendly Food Practices



2 ZERO HUNGER



ACTIVITY 01: FOOD AND CULTURE FEST

Organized By:
The Directorate of Sustainability and Environment
in collaboration with Pharma Spark, & WOH



The Directorate of Sustainability and Environment (DSE) organized a delightful Food Fest to support SDG 2, specifically targeting 2.1 to encourage access to safe, nutritious, and adequate food for all. Students from different departments registered and arrived enthusiastically to set up and decorate their stalls. The guests inaugurated the fest with a ribbon-cutting ceremony and visited each stall, asking insightful questions about calorie counts and nutritional benefits. With unique challenges and fun dares, the stalls drew enthusiastic student participation across campus. All registration fees were dedicated to a food drive, reinforcing the event's purpose of supporting food security. The fest concluded with a certificate ceremony to honor the students who managed the stalls, making it a memorable celebration of sustainable food practices.



2 ZERO HUNGER



ACTIVITY 02: FOOD DRIVE

Organized By:
The Directorate of Sustainability and Environment
in collaboration with Pharma Spark, & WOH



DSE organized an impactful food drive utilizing the funds collected from stall registration of Food Fest. This event aimed to give back to the university community, providing meals to campus guards, attendants, and other dedicated staff members. This drive aligned with SDG Target 2.1, which focuses on ensuring access to safe, nutritious, and sufficient food for all people. Through this effort, community spirit was fostered, taking a step toward building a more inclusive and supportive campus environment by addressing food security and well-being for all. By meeting the basic needs of those who support us daily, the food drive reinforced the importance of shared responsibility in achieving food security for everyone.



2 ZERO HUNGER



ACTIVITY 03: FM TALK ON ZERO HUNGER AND FOOD SECURITY

Organized By:
The Department of Bioinformatics and Biosciences



A dedicated FM talk on food security and microbial contamination was conducted at the FM Studio, F Block, in collaboration with Genix as part of ongoing efforts toward SDG 2 (Zero Hunger). The session critically examined the root causes of hunger in Pakistan, emphasizing that food insecurity is closely linked to unsafe food systems, poor sanitation, and microbial contamination rather than food scarcity alone. Key issues such as improper food handling, contaminated water, and lack of food safety awareness were highlighted as major contributors to foodborne illnesses and malnutrition. The discussion explained how these factors reduce nutritional value and hinder nutrient absorption, particularly among vulnerable populations. The initiative reinforced the importance of SDG Targets 2.1 and 2.2 by promoting access to safe, nutritious food through improved hygiene practices, awareness, and systemic food safety measures.



2 ZERO HUNGER



ACTIVITY 04: SUSTAINABLE COOKING COMPETITION

Organized By:
The Department of Management Sciences



The Directorate of Sustainability and Environment, in collaboration with JMS, organized a Cooking Competition to promote sustainable food practices in alignment with SDG 2, particularly Target 2.1, which emphasizes access to safe, nutritious, and adequate food. Students from various departments participated enthusiastically, presenting dishes based on mindful ingredient selection and sustainable cooking approaches. Guests and judges visited each station, engaging participants in discussions on nutritional value, calorie content, and sustainability considerations. Creative challenges encouraged awareness of healthy and responsible food choices across campus. The event concluded with the recognition of the most sustainable concepts through certificates and awards, reinforcing the importance of nutritious and sustainable food systems.



2 ZERO HUNGER



ACTIVITY 05: AWARENESS CAMPAIGN ON FOOD WASTAGE

Organized By:
The Department of Bioinformatics and Biosciences



An awareness campaign on food wastage was conducted in collaboration with Genix to promote sustainable food practices under SDG 2 (Zero Hunger). Students engaged with the management and staff of a local restaurant to discuss issues related to food waste, unsafe handling, and inefficient consumption practices. The campaign highlighted the environmental, social, and economic consequences of food wastage and its impact on food security. Practical recommendations such as portion control, improved storage, repurposing surplus food, and promoting mindful eating were shared to encourage sustainable practices. The initiative reinforced responsible consumption and supported efforts toward building a more efficient and sustainable food system within the community.



2 ZERO HUNGER



ACTIVITY 06: WORLD FOOD DAY

Organized By:
The Department of Bioinformatics and Biosciences



An FM podcast was conducted at Capital University of Science and Technology in collaboration with a faculty member from the Department of Biosciences and Bioinformatics to commemorate World Food Day and promote SDG 2 (Zero Hunger). The session addressed food insecurity in Pakistan, highlighting the impact of climate change, floods, and agricultural disruption on national food systems. Discussion emphasized climate-resilient agriculture, improved water management, policy reforms, and community-based adaptation strategies to combat hunger and malnutrition. The interconnectedness of poverty, environmental degradation, and food security was critically examined to encourage informed dialogue. The initiative supported SDG Targets 2.1 and 2.2 by promoting awareness, sustainable farming practices, and long-term resilience within local food systems.



2 ZERO HUNGER



ACTIVITY 07: PROMOTING ECO-FRIENDLY FOOD PRACTICES

Organized By:
The Department of Bioinformatics and Biosciences



An FM podcast was conducted at Capital University of Science and Technology in collaboration with a faculty member from the Department of Biosciences and Bioinformatics to commemorate World Food Day and promote SDG 2 (Zero Hunger). The session addressed food insecurity in Pakistan, highlighting the impact of climate change, floods, and agricultural disruption on national food systems. Discussion emphasized climate-resilient agriculture, improved water management, policy reforms, and community-based adaptation strategies to combat hunger and malnutrition. The interconnectedness of poverty, environmental degradation, and food security was critically examined to encourage informed dialogue. The initiative supported SDG Targets 2.1 and 2.2 by promoting awareness, sustainable farming practices, and long-term resilience within local food systems.



SDG 03

GOOD HEALTH &
WELL-BEING



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE	SR. NO.	ACTIVITY TITLE
1	Basic Life Support Training Session	12	Let's Talk It Out - Guided Support Group Sessions
2	Breast Cancer Awareness Walk	13	Mental health Awareness Day 2025
3	Breast Cancer Awareness Seminar	14	
4	Antimicrobial Resistance Awareness	15	
5	Pharmacists as Educators: Promoting Health and Well-being	16	
6	Women Hygiene Awareness; Islamic Perspective	17	
7	World Mental Health Day	18	
8	Mind Matters: One-on-One Counselling Session	19	
9	A Symbol of Support for Breast Cancer Awareness Tea Party	20	
10	Ice Breaker Activity	21	
11	International peace Day	22	



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 01: BASIC LIFE SUPPORT TRAINING SESSION

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE) in collaboration with Pharma Spark organized an engaging Basic Life Support (BLS) Training Session to support SDG 3: Good Health and Well-Being, specifically targeting SDG 3.3 and 3.8, which focus on ensuring access to essential health services and strengthening the capacity for health risk management. Students from various departments registered with enthusiasm and gathered to learn life-saving skills such as CPR, choking management, and emergency response techniques. The session began with a formal opening, after which certified trainers demonstrated each step while encouraging students to practice hands-on skills using training mannequins. Participants actively asked questions about emergency protocols and real-life applications, making the session interactive and informative. The training not only boosted students' confidence in handling medical emergencies but also emphasized the importance of community readiness.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 02: BREAST CANCER AWARENESS WALK

Organized By:
The Department of Pharmacy



The Breast Cancer Awareness Walk and Seminar were successfully organized by the Directorate of Sustainability and Environment (DSE) in collaboration with the Pharma Spark Society, in alignment with SDG 3 (Good Health and Well-Being), particularly target 3.4 (reducing premature mortality through prevention and health promotion). The primary objective of the activity was to spread awareness about the importance of early detection, regular screenings, and preventive practices to reduce the risks of breast cancer. The awareness walk began at 12:50 pm from J Block and concluded at 1:20 pm in front of the university fountain, serving as an interactive platform for open discussions, distribution of informational material, and addressing students' queries. This was further strengthened by an educational seminar held in the Industrial Lab, which provided a detailed understanding of prevention strategies, early diagnosis, and the importance of regular check-ups. Together, these integrated efforts successfully broke social stigmas, promoted self-care, and encouraged students to take their health seriously and spread awareness within their communities, ultimately fostering empathy, responsibility, and a strong commitment to prioritizing women's health and overall well being



3 GOOD HEALTH
AND WELL-BEING



ACTIVITY 03: BREAST CANCER AWARENESS SEMINAR

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE) organized an impactful Breast Cancer Awareness Session to support SDG 3: Good Health and Well-Being, specifically targeting SDG 3.4, which focuses on reducing premature mortality from non-communicable diseases through prevention and awareness. Students from different departments registered and gathered enthusiastically to learn about early detection, self-examination techniques, and the importance of regular screenings. The event began with an informative opening session led by healthcare professionals, who visited each awareness booth and answered insightful questions about symptoms, risk factors, and preventive measures. Interactive demonstrations, awareness posters, and Q&A circles encouraged active participation from students across campus. To emphasize community health, informational material and pink ribbons were distributed, helping spread the message of early diagnosis. The session concluded with a certificate ceremony to honor the volunteers and organizers, making it a meaningful and memorable initiative toward promoting women's health and saving lives.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 04: ANTIMICROBIAL RESISTANCE AWARENESS

**Organized By:
The Department of Pharmacy**



The Directorate of Sustainability and Environment (DSE) organized an AMR Awareness Desk aligned with SDG 3: Good Health and Well-being, particularly Target 3.d, which focuses on strengthening capacities for early warning, risk reduction, and management of health risks. Through interactive learning approaches, including the “Pop the Balloon” challenge, the activity enhanced public awareness of antimicrobial resistance by correcting misconceptions and promoting responsible antibiotic use. One-on-one discussions and guided questions informed participants about how the misuse and overuse of antibiotics contribute to resistance and emphasized preventive behaviors such as completing prescribed courses and avoiding self-medication. By strengthening health literacy and encouraging responsible practices, the initiative contributed to community-level risk reduction and supported efforts to combat antimicrobial resistance.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 05: PHARMACISTS AS EDUCATORS: PROMOTING HEALTH AND WELL-BEING

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE), in collaboration with Pharma Spark Society, organized an awareness session aligned with SDG 3: Good Health and Well-being, particularly Targets 3.4 and 3.8, focusing on the role of pharmacists in improving community health outcomes. The session highlighted how pharmacists, as accessible healthcare professionals, support disease prevention and management by promoting the safe and rational use of medicines, improving treatment adherence, raising awareness about side effects, vaccination, and healthy lifestyle choices. By emphasizing preventive care, patient education, and equitable access to safe and effective medicines, the activity reinforced the importance of pharmacists as frontline health educators and advocates. The session demonstrated that achieving good health and well-being requires a multidisciplinary approach, where pharmacists complement doctors and healthcare institutions in strengthening community-level healthcare systems.



3 GOOD HEALTH
AND WELL-BEING



ACTIVITY 06: WOMEN HYGIENE AWARENESS; ISLAMIC PERSPECTIVE

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE), in collaboration with the Pharma Spark Society and Beyond Borders Club at Capital University of Science and Technology, organized an awareness session titled “Women Hygiene Awareness: An Islamic Perspective,” aligned with SDG 3: Good Health and Well-being particularly Targets 3.4, 3.7. The session integrated medical knowledge with Islamic guidance to address personal and menstrual hygiene, promote preventive health practices, and dispel common misconceptions. By providing accurate, culturally sensitive health education, the activity enhanced health literacy, supported informed decision-making related to reproductive and personal health, and empowered female students through inclusive, values-based education.



3 GOOD HEALTH
AND WELL-BEING



ACTIVITY 07: WORLD MENTAL HEALTH DAY

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE) in collaboration with Pharma Spark organized an inspiring event in honor of World Mental Health Day, supporting SDG 3: Good Health and Well-Being. Students from various departments participated with great enthusiasm, setting up interactive awareness booths focused on stress management, emotional resilience, and the importance of seeking help. The event began with an opening ceremony, after which guests visited each booth, engaging students in meaningful discussions about mental wellness, coping strategies, and the significance of reducing stigma around mental health. Activities such as mindfulness sessions, positivity walls, and wellness challenges encouraged active participation from students across campus. All proceeds collected were donated to mental health support initiatives, reinforcing the event's commitment to promoting holistic well-being. The day concluded with a certificate distribution ceremony, appreciating the efforts of student organizers and marking the event as a memorable step toward fostering a healthier, more supportive campus community.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 08: MIND MATTERS: ONE-ON-ONE COUNSELLING SESSION

Organized By:
The Department of Pharmacy



The Mental Health Awareness and Psychological Support Initiative was successfully organized by the Directorate of Sustainability and Environment (DSE) in collaboration with the Pharma Spark Society, in alignment with SDG 3: Good Health particularly Targets 3.4. The initiative addressed rising academic pressure, personal responsibilities, and future uncertainties that contribute to stress, anxiety, and burnout among university students. In response to the limited availability of safe and confidential emotional support platforms, the event provided accessible, professional psychological support within the university setting. By promoting early mental health support, reducing stigma associated with counseling, and fostering coping and life skills, the initiative contributed to improved mental well-being, enhanced academic engagement, and the holistic development of students through inclusive and supportive education.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 09: A SYMBOL OF SUPPORT FOR BREAST CANCER AWARENESS TEA PARTY

Organized By:
The Department of Pharmacy



The Directorate of Sustainability and Environment (DSE), in collaboration with Pharma Spark, organized the Pink Tea event as part of Breast Cancer Awareness activities in alignment with SDG 3: Good Health and Well-Being, particularly Targets 3.4 and 3.d. The event promoted preventive healthcare by raising awareness about early detection, risk factors, and healthy practices related to breast cancer. A relaxed and inclusive environment encouraged students and faculty to engage in open discussions, helping to normalize conversations around women's health and reduce stigma associated with cancer awareness. The symbolic use of the color pink reinforced solidarity, empathy, and collective responsibility toward disease prevention. By strengthening health literacy, encouraging early awareness, and fostering a supportive community culture, the event contributed to improved well-being and proactive health behaviors.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 10: ICE BREAKER ACTIVITY

Organized By:
The Department of Psychology



The Department of Psychology conducted an “Ice Breaker Activity” under the umbrella of the Directorate of Sustainability and Environment (DSE) for newly enrolled first-semester students in alignment with SDG 3, particularly Target 3.4, which focuses on promoting mental health and emotional well-being. The session introduced students to the Directorate’s mission, goals, and opportunities, fostering awareness and engagement. Interactive activities encouraged open communication, self-expression, and peer connection to ease the transition into university life. A reflective chit-based exercise further supported emotional sharing and inclusivity. The initiative reduced initial stress, strengthened senior-junior rapport, and cultivated a supportive and welcoming academic environment.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 11: INTERNATIONAL PEACE DAY

Organized By:
The Department of Psychology



The Department of Psychology, under the umbrella of the Directorate of Sustainability and Environment (DSE), organized an International Peace Day event aligned with SDG 3, particularly Target 3.4, promoting mental health and emotional resilience. The celebration included a symbolic Peace Tree installation where students and faculty shared messages of compassion, unity, and coexistence, encouraging emotional expression and connectedness. An educational seminar titled “Role of Media in Peace Building Among Nations,” delivered by journalist Mr. Azaz Sayed, highlighted the impact of responsible media in reducing conflict and fostering mutual understanding. Students actively participated in discussions on mindful media consumption and constructive communication. The initiative effectively combined creativity and awareness, reinforcing the link between peace, societal harmony, and psychological well-being within the university community.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 12: LET'S TALK IT OUT - GUIDED SUPPORT GROUP SESSIONS

Organized By:
The Department of Psychology



The Department of Psychology conducted a two-day Support Group Series under the umbrella of the Directorate of Sustainability and Environment (DSE) to promote emotional well-being, peer support, and mental health awareness among students. The initiative aligned with SDG 3, particularly Target 3.4, by offering structured psychological support and practical coping strategies. An interactive affirmation-based registration activity created a welcoming and reflective environment. The Wellbeing Center facilitated themed sessions on anger management, anxiety, and stress management, focusing on grounding, self-regulation, and emotional awareness. Guided activities encouraged healthy emotional expression within a confidential and empathetic setting. The initiative provided a safe space for students to build resilience, strengthen coping skills, and enhance overall psychological well-being.



3 GOOD HEALTH AND WELL-BEING



ACTIVITY 13: MENTAL HEALTH AWARENESS DAY 2025

Organized By:
The Department of Psychology



The Department of Psychology organized a Mental Health Awareness event under the umbrella of the Directorate of Sustainability and Environment (DSE) to promote emotional well-being, mindfulness, and self-care among students. The initiative aligned with SDG 3, particularly Target 3.4, by strengthening awareness of mental health and emotional resilience. The courtyard was transformed into an interactive wellness space featuring games, motivational boards, and reflective activities such as a Positive Affirmation Wall that encouraged peer support. Team-based activities enhanced communication, balance, and emotional awareness in an engaging manner. The event fostered a positive and inclusive environment, reinforcing the commitment to building empathy, mindfulness, and psychological resilience within the university community.



SDG 04

QUALITY
EDUCATION



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Challenges and Opportunities for Fresh Graduates In Pakistan
2	Mock Interview Make your First Impression Count
3	Data Skills with Excel Functions, Automation & Smart Analysis
4	Crafting Impactful CVs: From Education to Employment
5	Paragon: Overseas Education
6	Prize National Article National Writing Competition
7	Poster Competition



ACTIVITY 01: CHALLENGES AND OPPORTUNITIES FOR FRESH GRADUATES IN PAKISTAN

Organized By:
The Department of Accounting & Finance



The seminar titled “Challenges and Opportunities for Fresh Graduates in Pakistan” was organized by the Department of Accounting and Finance to support SDG 4: Quality Education, with a focus on enhancing students’ employability, lifelong learning, and career readiness. Muhammad Shehzad Yousaf (Chief Retail Sales Officer) shared practical insights on the challenges faced by fresh graduates, including skills gaps, limited job opportunities, and competitive labor markets. The session emphasized the importance of continuous learning, skills development, internships, and professional networking as essential components of quality education beyond the classroom. By bridging academic learning with industry expectations, the seminar strengthened students’ understanding of real-world career pathways and contributed to Target 4.4 by promoting relevant skills for employment, decent work, and entrepreneurship.



4 QUALITY EDUCATION



ACTIVITY 02:

MOCK INTERVIEW MAKE YOUR FIRST IMPRESSION COUNT

Organized By:
The Department of Accounting & Finance



The workshop titled “Mock Interview: Make Your First Impression Count” was organized through the collaboration of SAFE and JMS Society to support SDG 4: Quality Education, with a specific focus on Target 4.4, which emphasizes the development of relevant skills for employment and career readiness. The session was conducted under the guidance of Ms. Saddaf Adalat, with a panel comprising Dr. Anam Tariq, Ms. Saddaf Adalat, Dr. Zeeshan Ahmed, and Ms. Rabia Habib, who provided expert insights into professional communication, personal presentation, and interview preparedness. A mock interview exercise was conducted to familiarize students with real interview environments, common questioning techniques, and appropriate response strategies. Key competencies such as confidence building, effective communication, body language, professional appearance, and workplace etiquette were discussed in detail.



4 QUALITY EDUCATION



ACTIVITY 03: DATA SKILLS WITH EXCEL: FUNCTIONS, AUTOMATION & SMART ANALYSIS

Organized By:
The Department of Accounting & Finance



The session titled “Data Skills with Excel: Functions, Automation & Smart Analysis” was conducted by Mr. Hassan Javed to support SDG 4: Quality Education, with a focus on Target 4.4, which emphasizes the development of relevant technical and digital skills for employment and lifelong learning. The workshop aimed to enhance participants’ proficiency in Microsoft Excel by covering essential functions, automation techniques, and smart data analysis strategies. Emphasis was placed on practical, hands-on learning to demonstrate how Excel can be used to manage complex datasets, improve accuracy, and increase efficiency. Participants gained applied skills in using formulas, pivot tables, and automation tools to analyze data effectively and support informed decision-making. By strengthening digital literacy and analytical competencies, the session contributed to quality, skills-oriented education aligned with academic and professional requirements.





ACTIVITY 04: CRAFTING IMPACTFUL CVs: FROM EDUCATION TO EMPLOYMENT

Organized By:
The Department of Accounting & Finance



The seminar titled “Crafting Impactful CVs: From Education to Employment” was organized by SAFE Society to support SDG 4: Quality Education, with a focus on Target 4.4, which emphasizes equipping learners with relevant skills for employment and career advancement. The session featured Ms. Faiza Arshad as the guest speaker, who shared her extensive academic and professional experience to guide students on effective CV writing and career presentation. The seminar focused on structuring professional CVs, understanding employer expectations, and clearly presenting educational background, skills, and achievements. By bridging academic qualifications with labor market requirements, the session enhanced students’ employability skills and supported the transition from education to employment through practical, skills-oriented learning.



4 QUALITY EDUCATION



ACTIVITY 05: PARAGON: OVERSEAS EDUCATION

Organized By:
The Department of Accounting & Finance



The seminar titled “Paragon: Overseas Education” was organized by SAFE Society to support SDG 4: Quality Education, with a focus on Target 4.3 (ensuring equal access to quality tertiary education) and Target 4.4 (enhancing relevant skills for academic and career development). The session aimed to raise awareness among students about international education pathways and the realities of studying abroad. Mr. Sardar Hanzla Tariq (Head of Department) and Mr. Syed Tassarwar Hussain (Director) shared their professional insights and practical guidance on overseas education opportunities, challenges, responsibilities, and decision-making processes. The discussion helped students critically evaluate studying abroad as an academic goal rather than a means of escape, enabling informed educational planning.



4 QUALITY EDUCATION



ACTIVITY 06: PRIZE NATIONAL ARTICLE NATIONAL WRITING COMPETITION

Organized By:
The Department of Accounting & Finance



SAFE Society organized an orientation session on the “PRIZE National Article Writing Competition 2025” to support SDG 4: Quality Education, with a focus on Target 4.4, which emphasizes developing relevant skills for effective learning, research, and professional growth. The session was delivered by Mr. Qanit Khalil Ullah, Chairman of PRIZE, who shared his extensive professional experience in corporate governance and financial management. The orientation aimed to enhance students’ academic writing, critical thinking, and research skills by providing guidance on article development, competition objectives. The discussion also introduced students to alternative economic perspectives, including interest-free economics and Zakat-based financial systems. Through interactive engagement and practical guidance, the session strengthened students’ research and writing competencies, contributing to skills-oriented and inclusive quality education.



4 QUALITY EDUCATION



ACTIVITY 07: POSTER DESIGNING COMPETITION

Organized By:
The Department of Mechanical Engineering

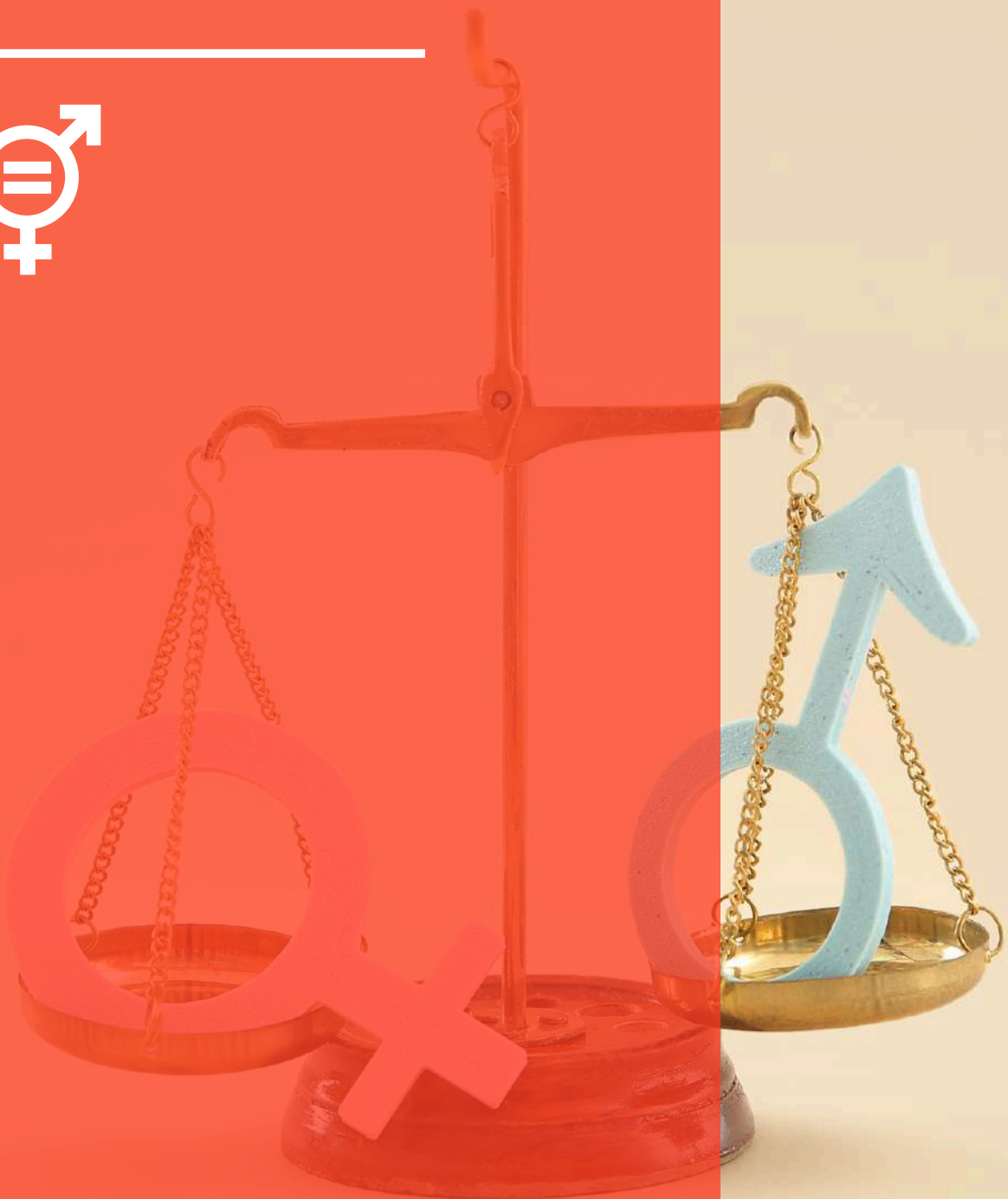


The Poster Designing Competition module encourages students to creatively express ideas and raise awareness on social, environmental, and technological issues through impactful visual communication. By combining research, critical thinking, and artistic skills, participants develop the ability to convey meaningful messages effectively to a wider audience. The competition promotes awareness on themes such as climate action, gender equality, health, and sustainability, aligning with the United Nations Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), SDG 5 (Gender Equality), and SDG 13 (Climate Action). It supports sub-targets 4.7 (education for sustainable development), 5.1 (ending discrimination against women and girls), and 13.3 (climate change awareness), fostering responsible citizenship and social engagement through creative expression..



SDG 05

GENDER EQUALITY



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	WOMEN ENTERPRENURIAL GALA
2	Girls Empowerment Awareness Session
3	Interactive Learning & Gender Inclusion Session
4	Sustainable Development & Gender Impact Debate

5 GENDER
EQUALITY



ACTIVITY 01: WOMEN ENTREPRENURIAL GALA

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



The Women Entrepreneurial Gala was conducted to promote gender equality, empowerment, and inclusivity within the university environment. The event provided a platform for students to participate in diverse activities, including martial arts, challenging stereotypes and demonstrating confidence, strength, and self-reliance. Collaborative stalls by both female and male students showcased entrepreneurial ideas and creative products, fostering teamwork, leadership, and innovation. The initiative aligned with SDG 5, particularly Targets 5.5 and 5.a, by promoting women's participation, leadership, and access to economic opportunities. It encouraged business awareness, communication skills, and interest in entrepreneurship as a career pathway. The activity reinforced the importance of equal opportunities and contributed to building a more inclusive and empowered society.



5 GENDER
EQUALITY



ACTIVITY 02: GIRLS EMPOWERMENT AWARENESS SESSION

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



An outreach visit was conducted at a government school in Kahuta to promote awareness of gender equality and women empowerment among students. Interactive sessions focused on women's rights, the importance of education, and entrepreneurial opportunities for girls. Discussions emphasized confidence building, decision-making, and equal participation in opportunities. The initiative created an engaging learning environment that encouraged curiosity and active involvement. It aligned with SDG 5, particularly Targets 5.1 and 5.5, by promoting equality, empowerment, and leadership among young girls. The activity fostered self-belief and inspired students to pursue their potential without limitations.



5 GENDER
EQUALITY



ACTIVITY 03: INTERACTIVE LEARNING & GENDER INCLUSION SESSION

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



An outreach visit was conducted at a Scientific Model School to engage students through interactive and activity-based learning. Educational games and creative activities, including face painting, created a friendly and inclusive environment encouraging equal participation of all students. The sessions promoted confidence building, communication, and self-expression without gender bias. The initiative aligned with SDG 5, particularly Targets 5.1 and 5.c, by fostering inclusivity, reducing gender-based stereotypes, and encouraging equal engagement in learning activities. It contributed to building a supportive environment that promotes equality, creativity, and mutual respect among young students.

5 GENDER
EQUALITY



ACTIVITY 04: SUSTAINABLE DEVELOPMENT & GENDER IMPACT DEBATE

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



A classroom courtroom activity explored the balance between industrial growth and environmental protection through a structured debate. Arguments highlighted economic development, job creation, and industrial progress alongside concerns of environmental degradation, water pollution, and long-term risks to human survival. The activity emphasized that sustainable development requires responsible practices that protect natural resources. It further linked environmental issues with gender equality, recognizing that women are disproportionately affected by resource scarcity and pollution. The initiative aligned with SDG 5, particularly Targets 5.1 and 5.5, by highlighting the need for equitable access to resources and inclusive decision-making. It reinforced the importance of sustainable practices in supporting women's well-being, opportunities, and leadership in society.



SDG 06

CLEAN WATER &
SANITATION



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Clean Water and Sanitation Quiz
2	Awareness Desk on Urban Flood Preparedness
3	Awareness Walk on Urban Flood Preparedness
4	Post-Flood Reconstruction & Water Resilience Session

6 CLEAN WATER AND SANITATION



ACTIVITY 01: CLEAN WATER AND SANITATION QUIZ

Organized By:
The Department of Civil Engineering



An interactive Civil Engineering Beep and Buzzer Quiz was conducted to enhance students' conceptual understanding through rapid-response learning. The competition covered key topics including water supply systems, wastewater treatment, hydrology, and environmental quality, promoting accuracy and critical thinking. Students actively engaged in applying theoretical knowledge to practical problem-solving scenarios. The initiative aligned with SDG 6, particularly Target 6.3, by strengthening knowledge on water quality and sustainable water management systems. It contributed to preparing future engineers for designing efficient and safe water infrastructure. The activity fostered technical competence, environmental awareness, and innovation in water-related engineering fields.



6 CLEAN WATER AND SANITATION



ACTIVITY 02: AWARENESS DESK ON URBAN FLOOD PREPAREDNESS

Organized By:
The Department of Civil Engineering



ASCE successfully organized an Awareness Desk on Urban Flood Preparedness, conducted on November 13, 2025, with active participation from its students. The activity was skillfully facilitated by the ASCE student body. The awareness desk centered on equipping students with essential knowledge regarding flood risks, urban drainage challenges, and preventive measures, directly aligning academic understanding with real-world disaster preparedness practices. Students learned key aspects such as flood hazard identification, water flow management, stormwater system maintenance, and community-level response strategies during urban flooding. This initiative is directly linked to Sustainable Development Goal 6: Clean Water and Sanitation, particularly supporting SDG 6.6, which emphasizes protecting and restoring water-related ecosystems by promoting responsible water management and reducing flood-related impacts. The event concluded with an interactive segment where students discussed best practices for improving drainage resilience and the role of civil engineers in designing systems that minimize flood damage and protect urban communities.



6 CLEAN WATER AND SANITATION



ACTIVITY 03: AWARENESS WALK ON URBAN FLOOD PREPAREDNESS

Organized By:
The Department of Civil Engineering



ASCE successfully organized an Awareness Walk on Urban Flood Preparedness, conducted on November 13, 2025, with active participation from its students. The walk was skilfully coordinated by the ASCE student body. The activity centered on promoting essential knowledge about flood risks, water flow management, and the importance of maintaining urban drainage systems, directly aligning academic understanding with community-level awareness. Students highlighted key concepts such as stormwater management, flood hazard recognition, and the impact of improper waste disposal on drainage blockages through displays and informational messages carried during the walk. This initiative is directly linked to Sustainable Development Goal 6: Clean Water and Sanitation, particularly supporting SDG 6.6, which emphasizes protecting and restoring water-related ecosystems and reducing flood-related disturbances through improved water management.



6 CLEAN WATER AND SANITATION



ACTIVITY 04: POST-FLOOD RECONSTRUCTION & WATER RESILIENCE SESSION

Organized By:
The Department of Civil Engineering



Civil engineering students actively participated in an engagement session titled “Build Back Better: Post-Flood Reconstruction”, organized by the National Disaster Management Authority (NDMA) and held at the NDMA Auditorium on November 5, 2025. The session focused on sustainable and resilient reconstruction practices in post-flood contexts, with particular emphasis on restoring and improving water-related infrastructure. Through expert presentations and case-based discussions, students gained practical insights into flood damage assessment, resilient design of water supply and sanitation systems, sustainable drainage solutions, and effective management of wastewater and stormwater in disaster-affected areas. The initiative aimed to enhance students’ understanding of the critical role civil engineers play in ensuring safe water access and protecting public health during post-disaster recovery. This engagement is directly aligned with Sustainable Development Goal 6: Clean Water and Sanitation, particularly SDG 6.1 and SDG 6.6, which emphasize universal access to safe water and the protection and restoration of water-related ecosystems. The session concluded with an interactive discussion where NDMA experts highlighted best practices in rebuilding flood-resilient water infrastructure and encouraged future engineers to adopt sustainable, water-sensitive approaches in post-flood reconstruction efforts.



SDG 07

RENEWABLE
ENERGY



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Clean Energy Object Identification
2	Renewable Energy Knowledge Challenge
3	Color the Future: Clean Energy Awareness
4	Digital Poster Competition
5	Guided Visit To Solar Power HUB of CUST
6	Hand-drawn Poster Competition
7	My Dream of a Clean Energy Future
8	Power Connections: Match the Energy Source

7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 01: CLEAN ENERGY OBJECT IDENTIFICATION

Organized By:
The Department of Electrical
& Computing Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, conducted a "Clean Energy Object Identification" exercise. This visual initiative utilized worksheets featuring illustrations of key infrastructure, requiring students to correctly identify technologies such as solar panels, wind turbines, hydroelectric dams, and electric vehicles. This event supported SDG 07, addressing Target 7.2 by familiarizing the younger generation with the physical infrastructure of renewable energy, and Target 7.a, by promoting early exposure to clean energy technology and fostering a technical interest in green solutions.



7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 02: RENEWABLE ENERGY KNOWLEDGE CHALLENGE

Organized By:
The Department of Electrical
& Computing Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized the "Clean Energy Quiz - Renewable Energy Knowledge Challenge". This interactive session tested school students' understanding of fundamental energy concepts, requiring them to distinguish between renewable sources, such as wind, and non-renewable resources like coal and oil. The challenge engaged participants in identifying the main benefits of sustainable power, such as reducing pollution and ensuring sustainability. This initiative aligned with SDG 07, specifically Target 7.2, by increasing awareness of renewable energy sources, and Target 7.3, by emphasizing the importance of energy efficiency in reducing waste.



7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 03:

COLOR THE FUTURE: CLEAN ENERGY AWARENESS

Organized By:
The Department of Electrical
& Computing Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, hosted an artistic session titled "Color the Future: Clean Energy Awareness". Students engaged in coloring detailed illustrations of green energy sources, serving as a fun, approachable medium to introduce complex sustainability concepts to a younger audience. The event contributed to SDG 07, particularly Target 7.1, by visualizing universal access to modern energy services, and Target 7.2, by creatively reinforcing the necessity of increasing the global renewable energy mix through engaging visual arts.



7 AFFORDABLE AND CLEAN ENERGY



ACTIVITY 04: DIGITAL POSTER COMPETITION

Organized By:
The Department of Electrical
& Computing Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized the Renewable Energy Poster Competition, an engaging initiative aimed at promoting awareness and innovation around clean and sustainable energy solutions. The competition provided students with a creative platform to visually express ideas related to renewable energy transition, smart technologies, and energy efficiency through digital posters. Participants showcased original and thought-provoking designs reflecting their vision for a greener and more sustainable future. The initiative encouraged innovation, critical thinking, and environmental responsibility among students, while fostering dialogue on the importance of transitioning toward clean energy systems. By integrating creativity with sustainability advocacy, the event effectively contributed to advancing SDG 07, Affordable and Clean Energy, Target 7.2 and 7.3 (promoting renewable energy adoption, enhancing awareness about energy efficiency) particularly by raising awareness and inspiring youth-led action for a sustainable energy future.



7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 05: GUIDED VISIT TO SOLAR POWER HUB OF CUST

Organized By:
The Directorate of Sustainability
and Environment



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized a “Guided Visit to the University’s Solar Power Hub” aimed at enhancing students’ understanding of renewable energy and promoting awareness of sustainable practices. The event aligned with SDG 07, Target 7.1 access to affordable, reliable energy, Target 7.2 increasing the share of renewables, Target 7.4 i.e. enhancing access to clean energy technologies and cooperation. During the visit, participants explored CUST’s solar power system, including solar panels, inverters, power distribution mechanisms, and grid connection processes, with detailed insights provided by a faculty expert. The event successfully deepened students’ knowledge of practical solar energy applications and inspired them to adopt and advocate for cleaner, greener energy solutions within the university and beyond.



7 AFFORDABLE AND CLEAN ENERGY



ACTIVITY 06: HAND-DRAWN POSTER COMPETITION

Organized By:
The Department of Mechanical Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized the Renewable Energy Poster Competition to encourage student innovation and awareness around sustainable energy solutions. Through hand-drawn posters, students visually presented ideas related to renewable energy transition, smart grids, energy efficiency, and future clean energy systems. The competition served as a creative platform for students to express sustainability-driven concepts while strengthening environmental responsibility and critical thinking. By integrating design, innovation, and sustainability advocacy, the initiative effectively advanced SDG 07, Affordable and Clean Energy, particularly Target 7.2 (promoting renewable energy adoption) and Target 7.3 (enhancing awareness about energy efficiency), inspiring youth-led action toward a greener and more energy-efficient future.

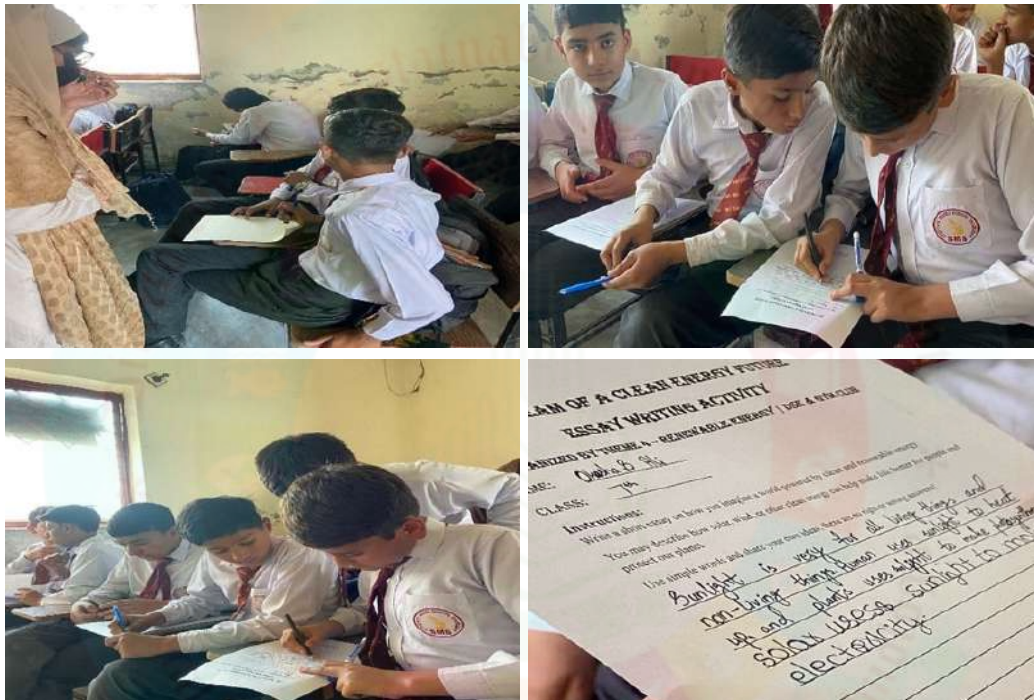


7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 07: MY DREAM OF A CLEAN ENERGY FUTURE

Organized By:
The Green Youth Movement Club



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, organized a creative writing endeavor titled "My Dream of a Clean Energy Future". In this essay writing competition, students were encouraged to use their imagination to describe a world powered entirely by clean and renewable energy. Participants articulated how sources like solar and wind could help make life better for people and protect the planet. This aligned with SDG 07, specifically Target 7.a, by fostering a mindset of international cooperation and future planning for clean energy research, and Target 7.b, by encouraging youth to envision sustainable infrastructure expansion.



7 AFFORDABLE AND
CLEAN ENERGY



ACTIVITY 08: POWER CONNECTIONS: MATCH THE ENERGY SOURCE

Organized By:
The Department of Electrical Engineering



The Department of Electrical and Computer Engineering, in collaboration with the Directorate of Sustainability and Environment (DSE) and the GYM Club, facilitated an educational exercise called "Power Connections: Match the Energy Source". Students were tasked with drawing logical connections between images of energy sources such as solar, wind, and hydro and their correct functional descriptions or uses. This session furthered SDG 07 goals, supporting Target 7.1 by clarifying how different modern energy services function, and Target 7.2, by reinforcing the distinct characteristics and advantages of renewable energy sources compared to traditional options.



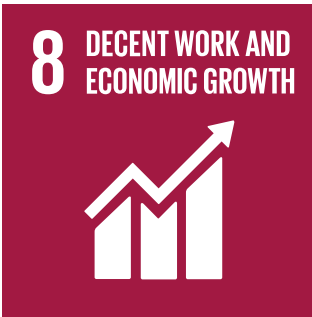
SDG 08

DECENT WORK & ECONOMIC GROWTH



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Pakistan Stock Exchange Visit
2	Enhancing Student Wellbeing to Support Productivity and Future Workforce Readiness



ACTIVITY 01: PAKISTAN STOCK EXCHANGE VISIT

Organized By:
The Department of Accounting and Finance



The educational visit to the Pakistan Stock Exchange (PSX), arranged by Mam Sadaf Adalat, provided students with a practical understanding of financial markets and stock trading mechanisms. During the visit, participants observed live trading sessions, explored the functioning of the trading floor, and learned about the roles of brokers, investors, and market regulators. The session emphasized the significance of informed investment decisions, risk management, and financial literacy in building personal and national economic growth. Interactive discussions and Q&A sessions encouraged students to analyze market trends and understand the impact of economic policies on stock performance. This visit supported Sustainable Development Goal 8 (Targets 8.3 and 8.5) by enhancing students' skills and knowledge for productive employment and entrepreneurship.

8 DECENT WORK AND ECONOMIC GROWTH



ACTIVITY 02:

ENHANCING STUDENT WELLBEING TO SUPPORT PRODUCTIVITY AND FUTURE WORKFORCE READINESS

Organized By:
The Department of Accounting and Finance



The seminar titled “Enhancing Student Wellbeing to Support Productivity and Future Workforce Readiness”, organized by the Occupational Safety & Health (OSH) Club in collaboration with the Jinnah Management Society (JMS) at the Capital University of Science and Technology (CUST), aimed to raise awareness about physical and mental wellbeing among students. Featuring Dr. Kiran Naz, a healthcare management lecturer and researcher, the session highlighted the importance of maintaining a balanced lifestyle to enhance focus, productivity, and academic performance. This activity supports SDG 08, particularly Targets 8.5 and 8.6, by promoting physical and mental wellbeing as key enablers of productivity, employability, and academic performance among university students.

SDG 09

INDUSTRY, INNOVATION
AND INFRASTRUCTURE



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Engineering Innovation & Skills Development Participation
2	Egg Drop Competiton
3	Industrial visit to Haidri Beverages Pvt.Ltd
4	Industrial visit to Hikmat Pump Pvt.Ltd
5	Workshop on Arduino programming
6	Science Fair
7	Project Exhibition Competition
8	Innovation & Technical Knowledge Quiz Competition
9	Hydropower Industrial Visit & Technical Exposure
10	Water Rocket Competition

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 01: ENGINEERING INNOVATION & SKILLS DEVELOPMENT PARTICIPATION

Organized By:
The Department of Civil Engineering



Students participated in ASME EFX 2025, a regional engineering festival that provided a platform for technical competitions, problem-solving challenges, and professional development. Engagement in activities such as a scavenger hunt and a physics-based escape room fostered analytical thinking, teamwork, and practical problem-solving skills, with notable achievement in securing a runner-up position. Project showcases and expert sessions enhanced exposure to emerging technologies, industry trends, and professional practices. The participation aligned with SDG 4, particularly Target 4.4, and SDG 9, especially Target 9.5, by strengthening technical skills, innovation, and research capacity. It contributed to building students' professional readiness and advancing their capabilities for future engineering solutions.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 02: EGG DROP COMPETITION

Organized By:
The Department of Civil Engineering



The Egg Drop Competition module is a hands-on STEM activity where students design and build protective structures to prevent an egg from breaking when dropped from a height, applying concepts of gravity, force, impact, and energy absorption. The competition promotes creativity, teamwork, critical thinking, and practical problem-solving as participants test and refine their designs using limited and often recyclable materials. This activity aligns with the United Nations Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 12 (Responsible Consumption and Production). It supports sub-targets 4.7 (education for sustainable development), 9.5 (enhancing scientific research and innovation skills), and 12.5 (waste reduction through reuse of materials), fostering sustainable thinking and experiential learning.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 03:

INDUSTRIAL VISIT TO HAIDRI BEVERAGES PVT.LTD

Organized By:
The Department of Civil Engineering



An industrial visit to Haidri Beverages Pvt. Ltd. was arranged for Mechanical Engineering students (Batch 223) to bridge the gap between theoretical learning and practical industrial applications. Students observed the complete beverage production cycle, including water treatment, syrup preparation, bottling, and packaging processes, with particular focus on automated machinery, conveyors, compressors, boilers, and quality control systems. They also gained insight into preventive maintenance practices, safety protocols, and energy management in a high-volume manufacturing environment, strengthening their understanding of modern mechanical systems and industrial workflows. The visit aligns with SDG 9 (Industry, Innovation and Infrastructure, Targets 9.2 & 9.5) through exposure to advanced manufacturing technologies.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 04:

INDUSTRIAL VISIT TO HIKMAT PUMP PVT.LTD

Organized By:
The Department of Civil Engineering



An industrial visit to Hikmat Pump Pvt. Ltd. was organized for Mechanical Engineering students (Batch 223) to enhance their understanding of the design, manufacturing, and assembly processes of submersible pumps and to bridge the gap between theoretical knowledge and industrial practice. Students observed various stages of production, including machining, materials selection, quality control, and performance testing, which provided practical insight into modern manufacturing techniques and production management. Interaction with engineers and technical staff deepened their awareness of real-world engineering challenges, industrial standards, and professional practices. The visit supports SDG 4 (Quality Education, Target 4.4) by strengthening technical and vocational skills, SDG 9 (Industry, Innovation and Infrastructure, Targets 9.2 & 9.5) by promoting understanding of sustainable industrialization and technological advancement, and SDG 8 (Decent Work and Economic Growth, Target 8.2) by enhancing competencies relevant to productive employment in the manufacturing sector.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 05: WORKSHOP ON ARDUINO PROGRAMMING

Organized By:
The Department of Mechanical Engineering



The Al-Muhandis Society, a student-led technical body under the Department of Mechanical Engineering at CUST, organized a hands-on technical workshop, engaging students from the Mechanical Engineering, Electrical Engineering, BRIS, and Computer Science departments in an immersive learning experience focused on Arduino programming and the development of a line follower robot. The workshop provided participants with foundational knowledge of coding, programming logic, and embedded systems while enabling them to translate theoretical engineering concepts into practical applications through collaborative design and problem-solving activities. By fostering teamwork, creativity, innovation, and healthy competition, the activity strengthened students' technical competencies and experiential learning. This initiative aligns with the United Nations' United Nations Sustainable Development Goals, particularly SDG 9 (Industry, Innovation and Infrastructure), notably Target 9.5 which encourages enhancing scientific research and technological capabilities. Through such initiatives, the society contributes to building a skilled, innovation-driven student community capable of addressing real-world engineering challenges.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 06: SCIENCE FAIR

Organized By:
The Department of Mechanical Engineering



A Science Fair was conducted as a comprehensive academic event to promote scientific inquiry, creativity, and innovation through exhibitions, competitions, and interactive activities. Students presented research projects, working models, and experiments addressing real-world challenges in technology, sustainability, and environmental solutions. The event encouraged collaboration, critical thinking, and practical application of knowledge, fostering a culture of innovation and problem-solving. It aligned with SDG 9, particularly Target 9.5, by strengthening scientific research, technological capabilities, and innovation among students. The initiative supported the development of technical skills and creative thinking essential for modern industrial advancement. It contributed to preparing students for future roles in research-driven and innovation-focused sectors.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 07: PROJECT EXHIBITION COMPETITION

Organized By:
The Department of Mechanical Engineering



The Project Exhibition Module is designed to provide students with a platform to display innovative ideas, research findings, and practical solutions to real-world problems through working models, presentations, and demonstrations. This module encourages creativity, critical thinking, collaboration, and problem-solving skills while promoting interdisciplinary learning. By focusing on themes such as sustainability, technology, health, and community development, the exhibition aligns with the United Nations Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), and SDG 13 (Climate Action). It also supports relevant sub-SDG targets such as 4.7 (education for sustainable development), 9.5 (enhancing research and innovation), and 13.3 (climate change awareness), fostering responsible global citizenship and sustainable progress.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 08: INNOVATION & TECHNICAL KNOWLEDGE QUIZ COMPETITION

Organized By:
The Department of Mechanical Engineering



A structured quiz competition was conducted to enhance students' technical knowledge, analytical thinking, and rapid decision-making through diverse rounds covering science, technology, and innovation-focused themes. The activity promoted teamwork, problem-solving, and the practical application of engineering concepts in a competitive environment. By integrating topics related to emerging technologies, industrial development, and sustainable solutions, the competition encouraged students to think critically about real-world challenges. The initiative aligned with SDG 9, particularly Target 9.5, by strengthening research, innovation, and technological capabilities among students. It supported the development of a strong foundation in technical competence and creative thinking essential for modern industries. The activity contributed to fostering innovation-driven mindsets and preparing students for future roles in advancing sustainable industrial and technological development.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 09: HYDROPOWER INDUSTRIAL VISIT & TECHNICAL EXPOSURE

Organized By:
The Department of Mechanical Engineering



An industrial visit to the Tarbela Dam Hydel Power Project was conducted to enhance practical understanding of large-scale hydroelectric power generation and bridge the gap between theory and real-world application. Students observed key components including turbines, generators, intake gates, power tunnels, and tailrace systems, gaining insights into mechanical design, fluid mechanics, and system operations. The visit highlighted the role of engineers in renewable energy production and national infrastructure development. It aligned with SDG 9, particularly Targets 9.1 and 9.5, by promoting exposure to sustainable infrastructure and strengthening technical and innovation capabilities. The initiative contributed to developing industry-relevant skills and a deeper understanding of modern engineering systems.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



ACTIVITY 10: WATER ROCKET COMPETITION

Organized By:
The Department of Mechanical Engineering

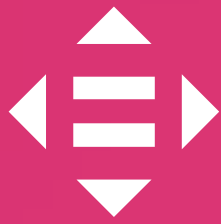


The Water Rocket Competition was a well-organized educational event that provided students with the opportunity to apply scientific and engineering principles in a practical setting. Participants designed and launched rockets powered by pressurized water, demonstrating their understanding of physics concepts such as force, pressure, aerodynamics, and stability. The competition fostered critical thinking, collaboration, and innovation as teams worked systematically to optimize their rocket designs for maximum height and accuracy. This initiative aligns with SDG 9: Industry, Innovation, and Infrastructure, specifically Target 9.5, by encouraging scientific research and strengthening technological capabilities among students. Overall, the competition contributed meaningfully to the promotion of STEM education and sustainable innovation.



SDG 10

REDUCED INEQUALITIES



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Inclusive Banking & Financial Equality Session
2	Inclusive Cooking Competition for Gender Equality
3	Cultural Fest 2025: Promoting Diversity & Inclusion
4	Elevator Pitch Competition: Inclusive Innovation & Entrepreneurship
5	Financial Literacy for All: A step towards Reducing Inequality
6	Education to Employment: Reducing Inequalities
7	Industrial Visit to Blue Pottery Industry: Promoting Inclusion
8	SBP's Initiative for Reduced Inequalities: Educating Students on Genuine vs. Counterfeit Currency
9	Women Entrepreneurship Day 2025

10 REDUCED INEQUALITIES



ACTIVITY 01: INCLUSIVE BANKING & FINANCIAL EQUALITY SESSION

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



The State Bank of Pakistan organized the orientation session at NIBAF, Ms. Tehreem Ashraf attended as part of the Student Ambassador program of the State Bank of Pakistan, it offered a comprehensive introduction to the concept of Banking on Equality, highlighting how inclusive financial systems can reduce gender and socioeconomic gaps. Through insightful discussions on financial innovation, regulatory frameworks, and the future of equitable banking in Pakistan, the session aimed to empower young ambassadors with the knowledge and responsibility to advocate for fair access to financial services. Its impact was evident in the enhanced understanding of inclusive banking practices, strengthened commitment to promoting equal economic opportunities, and increased motivation among participants to contribute to a more resilient and just financial ecosystem. The session strongly aligned with SDG 10: Reduced Inequalities, particularly advancing Target 10.2, which promotes the social, economic, and financial inclusion of all individuals regardless of background or gender.



10 REDUCED INEQUALITIES



ACTIVITY 02: INCLUSIVE COOKING COMPETITION FOR GENDER EQUALITY

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



A cooking competition was conducted to challenge gender stereotypes and promote inclusivity by encouraging equal participation of male and female students. The activity created a platform where culinary skills were recognized without bias, fostering confidence, mutual respect, and fair engagement among participants. It encouraged dialogue on breaking traditional gender roles and promoted a more inclusive campus environment. The initiative aligned with SDG 10, particularly Target 10.2, by supporting social and cultural inclusion regardless of gender. It contributed to shifting perceptions and reinforcing equality in everyday activities and shared spaces.



10 REDUCED INEQUALITIES



ACTIVITY 03:

CULTURAL FEST 2025: PROMOTING DIVERSITY & INCLUSION

Organized By:
The Department of Management Sciences in collaboration with the DSE.



A Food and Cultural Fest was conducted to celebrate diversity and promote inclusivity by bringing together students from varied cultural, social, and regional backgrounds. The event provided a platform for expression through music, art, traditions, and food, fostering mutual respect and understanding among participants. It encouraged interaction and connection across different groups, helping to break social barriers and strengthen a sense of belonging within the campus community. The initiative aligned with SDG 10, particularly Target 10.2, by promoting social inclusion and equal participation regardless of background. It contributed to building a more harmonious, inclusive, and culturally aware university environment.



10 REDUCED INEQUALITIES



ACTIVITY 04:

ELEVATOR PITCH COMPETITION: INCLUSIVE INNOVATION & ENTREPRENEURSHIP

Organized By:

The Department of Management Sciences in collaboration with the DSE.



The Department of Management Sciences organized a Elevator Pitch Competition. The Elevator Pitch Competition brought together students from all academic departments to present innovative business ideas aimed at contributing to Pakistan's economic growth. By providing an equal platform for participants regardless of discipline or background, the event strongly aligned with SDG 10: Reduced Inequalities, particularly Target 10.2, which focuses on promoting social and economic inclusion for all. The competition aimed to encourage entrepreneurial thinking, boost confidence, and bridge gaps between diverse fields of study by valuing ideas based on merit rather than academic stream. Its impact was reflected in enhanced cross-departmental collaboration, increased student awareness of entrepreneurship as a viable career path, and the empowerment of young innovators to actively participate in building an inclusive and resilient economy.





ACTIVITY 05: FINANCIAL LITERACY FOR ALL: A STEP TOWARDS REDUCING INEQAUILITY

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



The Directorate of Sustainability and Environment (DSE) in collaboration with Department of Management Sciences Organized the Seminar on Financial Literacy for All: A Step towards Reducing Inequality” aimed to equip students from diverse economic and academic backgrounds with essential knowledge about budgeting, saving, investing, and responsible financial decision-making. The Guest Speaker Zunaira Anum from Pakistan Mercantile Exchange (PMEX) gave valuable insights by promoting equal access to financial education, the seminar aimed to bridge knowledge gaps that often lead to long-term economic disparities. Its impact was reflected in increased financial awareness, improved confidence among students in managing their personal finances, and a more inclusive learning environment where everyone –regardless of socioeconomic status–could gain the tools needed for financial stability and upward mobility. This initiative strongly aligned with SDG 10: Reduced Inequalities, specifically supporting Target 10.2, which focuses on ensuring the social and economic inclusion of all individuals.





ACTIVITY 06: EDUCATION TO EMPLOYMENT: REDUCING INEQUALITIES

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



A seminar on “Education to Employment: Reduced Inequalities for Pakistan’s Future Graduates” highlighted the importance of creating an inclusive and equitable workforce. The discussion addressed emerging opportunities in sectors such as fintech, digital marketing, entrepreneurship, and remote work, while identifying challenges like unequal access to education, skills gaps, and socioeconomic disparities. It emphasized the need for skill-based learning, fair employment opportunities, and inclusive policies for underserved communities. The initiative aligned with SDG 10, particularly Target 10.2, by promoting social and economic inclusion regardless of background. It contributed to raising awareness about bridging opportunity gaps and building a more equitable future.



10 REDUCED INEQUALITIES



ACTIVITY 07:

INDUSTRIAL VISIT TO BLUE POTTERY INDUSTRY: PROMOTING INCLUSION

Organized By:
The Department of Management Sciences in collaboration with the DSE.



An industrial visit to Gujrat's blue pottery industry provided students with practical exposure to a workplace where both men and women contribute equally to production and craftsmanship. The experience highlighted gender-inclusive employment practices and challenged traditional stereotypes in skilled labor sectors. It enhanced students' understanding of equal opportunities and the importance of inclusive economic participation. The activity aligned with SDG 10, particularly Target 10.2, by promoting social, economic, and cultural inclusion regardless of gender. It contributed to fostering awareness of equitable work environments and inclusive growth.



10 REDUCED INEQUALITIES



ACTIVITY 08:

SBP'S INITIATIVE FOR REDUCED INEQUALITIES: EDUCATING STUDENTS ON GENUINE VS. COUNTERFEIT CURRENCY

Organized By:

The Department of Management Sciences in collaboration with the DSE.



The Jinnah Management Society (JMS) of Department of Management Sciences organized the Seminar on SBP's Initiative for Reduced Inequalities, focused on educating students about distinguishing genuine currency from counterfeit, served as an important step toward strengthening financial awareness and inclusivity on campus. By equipping students from diverse academic and socioeconomic backgrounds with essential knowledge about currency security features. The seminar aimed to ensure that every student regardless of financial literacy level could protect themselves from fraud and participate confidently in the financial system. Its impact was reflected in improved student understanding of currency authentication, greater financial responsibility, and enhanced trust in the formal banking framework, contributing to a more informed and economically secure community. The event aligned directly with SDG 10: Reduced Inequalities, particularly Target 10.2, which emphasizes promoting social and economic inclusion for all.



10 REDUCED INEQUALITIES



ACTIVITY 09: WOMEN ENTREPRENEURSHIP DAY 2025

Organized By:
The Department of Management
Sciences in collaboration with the DSE.



The State Bank of Pakistan organized the Women Entrepreneurship Day 2025, which I attended as an SBP Ambassador, showcased an inspiring collection of women-led entrepreneurial stalls, along with vibrant food and music that highlighted creativity and cultural expression. By providing women with a visible platform to market their products, share their ideas, and engage with a wider audience, the event aimed to strengthen their economic participation and challenge existing barriers to entrepreneurship. Its impact was evident in the increased visibility of women-led businesses, enhanced networking opportunities, and greater awareness of the importance of gender-inclusive economic growth as a pathway to reducing inequalities. The event directly aligned with SDG 10: Reduced Inequalities, particularly supporting Target 10.2, which promotes the social and economic inclusion of all individuals, especially underrepresented groups such as women entrepreneurs.



SDG 11

SUSTAINABLE CITIES
& COMMUNITIES



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Sustainable Cities Knowledge Quiz
2	Awareness Desk on Urban Flood Preparedness
3	Awareness Walk on Urban Flood Preparedness
4	Structural Design in Construction Industry
5	Structural Analysis and Design using BIM - Workshop
6	Engagement in Build Back Better: Post-Flood Reconstruction Policy and Engineering Forum (NDMA)



ACTIVITY 01: SUSTAINABLE CITIES KNOWLEDGE QUIZ

Organized By:
The Department of Civil Engineering



A Civil Engineering Beep and Buzzer Quiz was conducted to strengthen students' conceptual understanding through an interactive and competitive learning environment. The competition included multiple rounds covering structural engineering, transportation systems, geotechnical concepts, environmental engineering, and construction management, encouraging both accuracy and quick analytical thinking. The activity promoted teamwork, rapid problem-solving, and the practical application of theoretical knowledge to real-world urban challenges. It aligned with SDG 11, particularly Target 11.3, by enhancing students' technical capacity and awareness related to sustainable and inclusive urban development. By reinforcing core civil engineering concepts, the initiative contributed to preparing future engineers capable of designing resilient, efficient, and sustainable city infrastructure. The event concluded with a competitive final round that showcased strong technical proficiency and innovation among participants.





ACTIVITY 02: AWARENESS DESK ON URBAN FLOOD PREPAREDNESS

Organized By:
The Department of Civil Engineering



ASCE successfully organized an Awareness Desk on Urban Flood Preparedness, conducted on November 13, 2025, with active participation from its students. The activity was skilfully facilitated by the ASCE student body. The awareness desk centered on informing students about the growing challenges of urban flooding and the importance of resilient planning, directly aligning academic knowledge with current urban disaster management practices. Students explored key components such as risk mapping, sustainable drainage systems, emergency response protocols, and the role of infrastructure design in reducing flood vulnerability. This initiative is directly linked to Sustainable Development Goal 11: Sustainable Cities and Communities, particularly supporting SDG 11.5, which focuses on reducing the adverse impacts of natural disasters, including floods, through strengthened resilience and adaptive infrastructure. The event concluded with an interactive segment where students discussed effective urban planning measures and the significance of resilient flood-management strategies in ensuring safe and sustainable cities.





ACTIVITY 03: AWARENESS WALK ON URBAN FLOOD PREPAREDNESS

Organized By:
The Department of Civil Engineering



ASCE successfully organized an Awareness Walk on Urban Flood Preparedness, conducted on November 13, 2025, with active participation from its students. The walk was skillfully coordinated by the ASCE student body. The activity centered on raising awareness about the increasing challenges of urban flooding and the importance of resilient urban planning, directly bridging academic knowledge with public engagement. Students displayed key messages related to flood risk reduction, sustainable drainage systems, emergency response preparedness, and community resilience as they moved through the campus and surrounding areas. This initiative is directly linked to Sustainable Development Goal 11: Sustainable Cities and Communities, particularly supporting SDG 11.5, which focuses on reducing the impacts of natural disasters, including floods, through strengthened preparedness and resilient infrastructure planning.





ACTIVITY 04: STRUCTURAL DESIGN IN CONSTRUCTION INDUSTRY

Organized By:
The Department of Civil Engineering



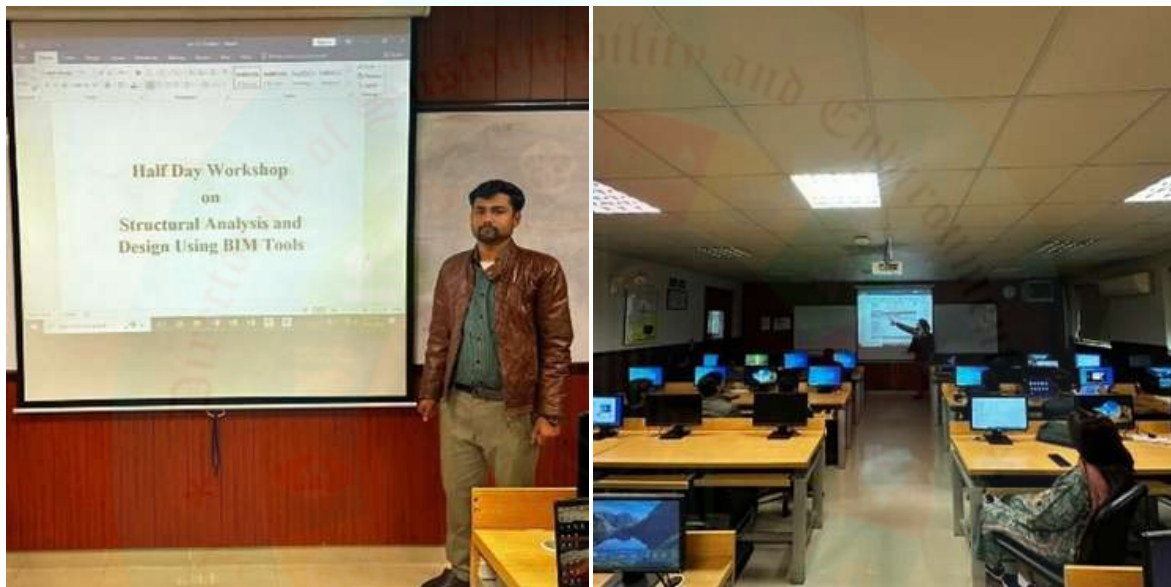
ASCE in collaboration with OSH Student Club organized a seminar on the topic “Safety in Construction: The Role of Innovation.” This initiative directly aligned with SDG 11, specifically Target 11.3, which aims to enhance inclusive and sustainable urbanization and promote participatory and integrated urban and regional planning and management. By focusing on innovative safety solutions, the seminar encourages the development of more sustainable and efficient construction methods. This includes technologies that minimize waste, reduce environmental impact, and improve worker safety. thereby contributing to the creation of safer and more inclusive urban environments. Overall, this initiative engaged participants with the critical components of SDG 11, encouraging them to consider their roles in creating a safer, more sustainable, and inclusive construction industry.





ACTIVITY 05: STRUCTURAL ANALYSIS AND DESIGN USING BIM - WORKSHOP

Organized By:
The Department of Civil Engineering



A specialized workshop on Structural Analysis and Design using Building Information Modeling (BIM) was conducted to provide students with practical, industry-oriented insights into modern construction practices. The session focused on BIM-based modeling workflows, structural load analysis, interdisciplinary coordination, clash detection, and system optimization for safety and efficiency. It enhanced understanding of how digital tools improve accuracy, collaboration, and performance in structural engineering projects. The initiative aligned with SDG 11, particularly Target 11.3, by promoting sustainable urban planning and resilient infrastructure through advanced technological integration. Interactive discussions further highlighted the future scope of BIM in developing efficient and sustainable built environments. The activity contributed to strengthening technical capacity and preparing students for innovative roles in sustainable city development.





ACTIVITY 06: ENGAGEMENT IN BUILD BACK BETTER: POST-FLOOD RECONSTRUCTION POLICY AND ENGINEERING FORUM (NDMA)

Organized By:
The Department of Civil Engineering



Civil engineering students actively participated in a session titled “Build Back Better: Post-Flood Reconstruction”, organized by the National Disaster Management Authority (NDMA) and held at the NDMA Auditorium on November 5, 2025. The session focused on building resilient and sustainable infrastructure in post-flood scenarios, emphasizing the importance of risk-informed planning and disaster-resilient construction practices. Through expert presentations and case-based discussions, students gained practical insights into post-disaster damage assessment, resilient design strategies, sustainable material use, and community-centered reconstruction approaches. The initiative aimed to strengthen students’ understanding of their professional role in disaster recovery and long-term resilience building. This engagement is closely aligned with Sustainable Development Goal 11: Sustainable Cities and Communities, particularly SDG 11.5 and SDG 11.b, which stress reducing disaster impacts and strengthening resilience through effective planning and implementation. The session concluded with an interactive discussion where experts from NDMA highlighted lessons learned from past flood events and encouraged future engineers to adopt the “Build Back Better” approach in developing safer, more resilient communities.



SDG 12

RESPONSIBLE CONSUMPTION
AND PRODUCTION



LIST OF ACTIVITIES

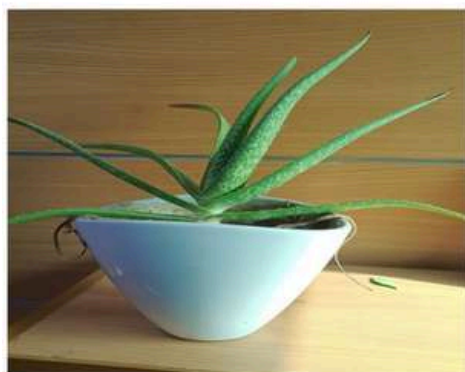
SR. NO.	ACTIVITY TITLE
1	Green Offices Initiative
2	Waste Reduction Competition
3	International Day of Awareness of Food Loss and Waste
4	Junk to Jewel: Sustainability Showcase
5	Responsible Energy Production and Conservation
6	Bird and Cat Feeders Competition

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



ACTIVITY 01: GREEN OFFICES INITIATIVE

Organized By:
The Department of Pharmacy



On November 21st, 2025; a special activity of green offices was initiated. The Green Offices Initiative has played a key role in advancing Sustainable Development Goal (SDG) 12, which targets responsible consumption and production. By encouraging the placement of indoor plants in office spaces, the initiative not only enhances aesthetic appeal but also improves air quality and boosts employee well-being. The incorporation of potted plants contributes to resource efficiency by promoting use of locally sourced and sustainable plant species, thus reducing carbon footprint associated with office furnishings. By raising awareness and taking action, society can work towards safeguarding nature for future generations. The placement of potted plants in faculty offices was started at 11:30am and concluded at 12:00pm.



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



ACTIVITY 02: CLEANLINESS DRIVE ACTIVITY

Organized By:
The Department of Pharmacy



Keep your environment clean



Clean lab instruments properly

The Social Welfare Club of Pharma Spark Society at Capital University of Science and Technology organized Cleanliness Drive on 20th March 2025, aligning with SDG Goal 12: Responsible Consumption and Production. Students from the Pharmacy Department took part in cleaning classrooms, laboratories, and open areas across the campus. Their collaborative efforts contributed to reducing waste and promoting sustainable practices within the university. The drive emphasized the importance of responsible resource management, fostering a cleaner and healthier environment. Faculty members highly appreciated the initiative, recognizing the students' commitment to sustainability. Beyond the immediate impact of cleaning, the event encouraged teamwork, civic responsibility, and instilled pride in maintaining a responsible and sustainable campus.



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



ACTIVITY 03: INTERNATIONAL DAY OF AWARENESS OF FOOD LOSS AND WASTE

Organized By:
The Department of Pharmacy



The event observed the International Day of Awareness of Food Loss and Waste by stressing the urgent need to reduce food wastage in line with SDG 12.3. It informed audiences about the global and national impacts of food loss, including hunger, environmental damage, and economic pressure. This program highlighted that nearly one third of the world's food is wasted annually, showing inefficient use of natural resources under SDG 12.2. Attention was drawn to Pakistan's 36 million tons of food wasted each year, and its connection to inflation, poverty, and malnutrition. Practical measures such as food banks, better institutional planning, and sustainable consumption habits were promoted to reduce waste under SDG 12.5. The session concluded by encouraging mindful daily actions to build a sustainable, hunger free Pakistan.



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



ACTIVITY 04: JUNK TO JEWELS: SUSTAINABILITY SHOWCASE

Organized By:
The Department of Psychology



The Department of Psychology organized a "Junk to Jewel's: Sustainability showcase" event under the umbrella of Directorate of Sustainability and Environment (DSE). The event aimed to promote recycling, upcycling, and responsible consumption in compliance with the target 12.5. Students displayed innovative products made from recycled materials on tables decorated with reused items, emphasizing sustainable practices. Faculty and students across the university visited the desks, engaging with participants to learn about their creations. The event successfully raised awareness about waste reduction and inspired attendees to adopt sustainable habits, demonstrating the value of individual efforts in achieving global sustainability.



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



ACTIVITY 05: RESPONSIBLE ENERGY PRODUCTION AND CONSERVATION

Organized By:
The Department of Pharmacy



In alignment with SDG Goal 12, the FM recording activity on responsible energy production and conservation provided students with a hands-on platform to explore sustainability through media and communication. The session not only offered practical experience in audio recording and broadcasting but also encouraged critical thinking and collaboration among participants. Emphasizing the need to reduce energy waste, enhance efficiency, and shift towards renewable sources, the activity aimed to instill a deeper understanding of sustainable energy practices. It highlighted the importance of mindful energy consumption as a key step toward environmental protection and long-term resource preservation. Through this initiative, students were empowered to engage with real-world challenges and explore innovative solutions for a more responsible and sustainable future.

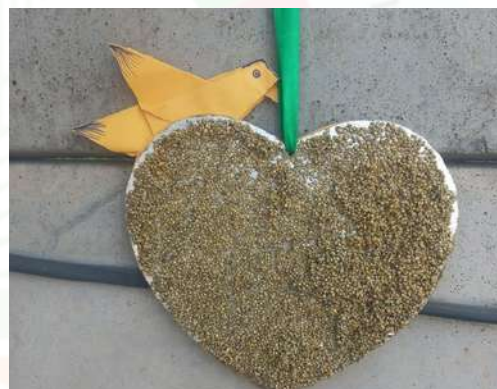


12 RESPONSIBLE CONSUMPTION AND PRODUCTION



ACTIVITY 06: BIRD AND CAT FEEDER COMPETITION

Organized By:
The Department of Pharmacy



The Social Welfare Club of Pharma Spark Society, in collaboration with Directorate of Sustainability and Environment (DSE) organized 'Bird and Cat Feeder Competition'. This competition aimed to assess the creativity of students and make them interact with nature in alignment with SDG Goal 12: Responsible Consumption and Production. The competition promoted sustainable solutions for feeding birds and cats, aligning with SDG 12.2 on efficient resource use. It successfully reconnected students with nature and raised environmental awareness, supporting Target 12.8. By encouraging creativity and practical learning, it fostered responsible behavior toward ecosystems and biodiversity, contributing to Target 12.5 on waste reduction. Overall, the event highlighted the importance of sustainable practices through hands-on, educational engagement.



SDG 13

CLIMATE ACTION



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Climate Action Poster Competition
2	Eco Talks on Climate Responsibility
3	Plantation Drive





ACTIVITY 01: CLIMATE ACTION POSTER COMPETITION

Organized By:
The Department of English



A poster competition was conducted to provide students with a creative platform to express ideas related to climate change and environmental responsibility. Participants designed impactful visuals highlighting issues such as global warming, deforestation, pollution, and the need for sustainable practices. The activity encouraged students to explore climate challenges through creative expression while promoting awareness and critical thinking. It aligned with SDG 13, particularly Target 13.3, by enhancing education, awareness, and capacity on climate change mitigation and adaptation. The initiative strengthened students' understanding of environmental issues and inspired responsible behavior toward climate action. It contributed to fostering environmentally conscious individuals committed to sustainable practices.





ACTIVITY 02: ECO TALKS ON CLIMATE RESPONSIBILITY

Organized By:
The Department of English



A series of Eco Talks was conducted to promote environmental awareness and encourage sustainable habits through interactive classroom sessions. Short and engaging discussions focused on practical actions such as reducing waste, conserving water and energy, and adopting eco-friendly behaviors. The initiative created an open environment for dialogue, allowing students to reflect on their individual roles in protecting the environment. It aligned with SDG 13, particularly Target 13.3, by enhancing awareness and education on climate change mitigation and responsible practices. The activity emphasized how small, consistent actions can collectively reduce environmental impact. It contributed to fostering a culture of environmental responsibility and long-term commitment to climate action within the university community.





ACTIVITY 03: PLANTATION DRIVE

Organized By:
The Department of English

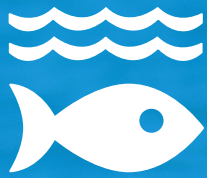


A plantation drive was conducted to promote a green and sustainable campus through active student participation in tree planting. Students planted saplings across the campus, highlighting the importance of trees in improving air quality, reducing pollution, and supporting environmental sustainability. The initiative created awareness about the role of individual actions in protecting the environment and combating climate change. It aligned with SDG 13, particularly Target 13.3, by enhancing awareness and encouraging climate-positive practices. The activity fostered a sense of environmental responsibility and collective commitment toward a healthier ecosystem. It contributed to building a greener campus and promoting long-term climate-conscious behavior among students.



SDG 14

LIFE BELOW WATER



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Plastic-Free Awareness Desk Initiative
2	Ocean Conservation Awareness Desk
3	Water Purification & Marine Life Poster Competition





ACTIVITY 01: PLASTIC-FREE AWARENESS DESK INITIATIVE

Organized By:
The Department of Bioinformatics & Biosciences



An awareness desk activity was conducted to highlight the harmful impacts of plastic pollution and promote a plastic-free lifestyle. Informative materials, interactive discussions, and pledge activities encouraged participants to reduce, reuse, and recycle plastic while adopting eco-friendly alternatives. The initiative emphasized how plastic waste affects marine life, pollutes oceans, and disrupts aquatic ecosystems. It aligned with SDG 14, particularly Target 14.1, by raising awareness about reducing marine pollution from land-based activities. The activity fostered responsible behavior and encouraged participants to minimize plastic use in daily life. It contributed to protecting aquatic ecosystems and promoting sustainable practices for cleaner and healthier water bodies.





ACTIVITY 02: OCEAN CONSERVATION AWARENESS DESK

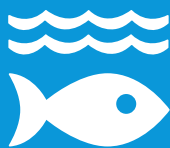
Organized By:
The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized a seminar under the supervision of Dr. Arshia Amin, with Mr. Muhammad Zameer as the speaker. The seminar was attended by MS and PhD students, along with faculty members. Mr. Muhammad Zameer discussed bacterial signaling, explaining how communication among disease-causing bacteria strengthens their adaptability in various habitats, including oceanic regions, deep water bodies, wastewater, and land. The event aimed to explore these communication mechanisms for better bacterial control while identifying research gaps and future opportunities. The session aligned with Sustainable Development Goal (SDG) 14: Life Below Water, as bacterial communication influences both terrestrial and aquatic ecosystems. The sub-targets of SDG 14 covered in the discussion were: 14.1 (reducing marine pollution caused by pathogenic bacteria), 14.2 (protecting marine ecosystems from bacterial contamination) and 14.5 (conserving aquatic biodiversity affected by bacterial infections).




14 LIFE BELOW WATER



ACTIVITY 03: WATER PURIFICATION & MARINE LIFE POSTER COMPETITION

Organized By:
The Department of Bioinformatics & Biosciences



Industrial-Scale Biological Mechanisms for Environmental Crew into Industrial Powerhouses

Mr. Abid Ur Rehman
Biotechnologist, Capital University of Science and Technology, Islamabad, Pakistan.

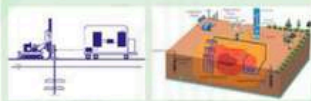
Abstract
Environmental pollution by industrial waste, heavy metals, and hydrocarbons poses a critical global threat. This project explores the industrial-scale application of biological mechanisms for environmental remediation. We review key processes, including microbial degradation, phytoremediation, and mycoremediation, as eco-friendly and cost-effective alternatives to traditional physicochemical methods. By examining existing tech like bioreactors, constructed wetlands, and future enhancements using genetic engineering, this poster highlights the "low-to" of transforming natural cleanup crews: microbes, plants, and fungi, into industrial powerhouses for a cleaner environment.

Introduction
The Problem: Widespread industrial, agricultural, and urban activities release persistent pollutants (heavy metals, pesticides, plastics, hydrocarbons) into water and soil, threatening ecosystem and human health.
The Conventional Fix: Traditional cleanup methods (e.g., chemical precipitation, excavation) are often extremely expensive, energy-intensive, and can produce toxic secondary waste.
The Biological Solution: Bioremediation leverages the metabolic potential of living organisms to degrade, sequester, or detoxify contaminants. This approach is sustainable, eco-friendly, and often significantly more cost-effective.

Materials and Methods
This section outlines the primary technologies used to apply biological mechanisms at an industrial scale.

- In-Situ (On-site) Technologies:** Treating contamination in place.
- Bioventing:** Injecting air/oxygen into soil to stimulate aerobic bacteria to degrade pollutants.
- Biosparging:** Injecting air below the water table to promote remediation of groundwater.
- Phytostabilization:** Using plants to immobilize contaminants in the soil, preventing their spread.
- Ex-Situ (Off-site) Technologies:** Excavating/pumping contaminated material for treatment.

- Bioreactors:** Controlled, large-scale engineered vessels where microbes are mixed with contaminated water or soil slurry under optimized conditions (temperature, pH, nutrients).
- Biospiles:** Excavated soil is mixed with amendments and piled to promote microbial activity.
- Bioaugmentation:** Adding specialized, pre-grown microbial cultures (like *Pseudomonas putida*) to a site to speed up degradation.
- Genetic Engineering (GEMs):** Using tools like CRISPR-Cas9 to create "super-microbes" with enhanced pathways for degrading highly persistent pollutants (e.g., plastics, certain pesticides).



Results: Mechanisms in Action
Microbial Degradation (Oil Spills): Bacteria like *Pseudomonas putida* and *Akanavivax boykinensis* are "hydrocarbon specialists." They secrete powerful enzymes that break down complex hydrocarbon chains in oil into simple, harmless products like CO₂ and water.


Phytoremediation (Heavy Metals):
Phytoextraction: "Hyperaccumulator" plants like Indian Mustard (*Brassica juncea*) and Alpine Pennywort (*Thlaspi caerulescens*) actively absorb and store high concentrations of heavy metals (like lead, cadmium, zinc) from the soil into their harvestable shoots and leaves.

Myco- & Phytoremediation (Wastewater):
Fungi: White-rot fungi (e.g., *Phanerochaete chrysosporium*) produce lignin-degrading enzymes that non-specifically break down a wide range of stubborn pollutants, including pesticides and dyes.


Algae: Microalgae (e.g., *Chlorella vulgaris*) are highly effective at nutrient removal. In wastewater treatment, they rapidly consume nitrogen (N) and phosphorus (P), the main causes of eutrophication, while simultaneously producing valuable biomass.

Quantitative Success:
Constructed wetlands consistently demonstrate >90% removal efficiency for Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) from municipal wastewater.

Bioremediation of the Exxon Valdez oil spill was shown to increase degradation rates 3-5 times compared to untreated shorelines.



Conclusion
Proven Efficacy: Biological mechanisms are scientifically validated, powerful, and versatile tools for environmental cleanup.
Key Advantages: They are sustainable, have a lower carbon footprint, and are often dramatically more cost-effective (up to 60-80% cheaper) than traditional engineering methods.
Current Challenges: Scaling up can be limited by slow biological growth rates, precise environmental condition requirements (pH, temp), and public perception of Genetically Engineered Microorganisms (GEMs).
Future Prospects: The future lies in Synthetic Biology to design custom microbes for specific pollutants, Nanobiotechnology (using nanoparticles to enhance microbial activity), and integrating remediation into a Circular Bioeconomy (e.g., harvesting metal-rich plants or converting algae to biofuel).

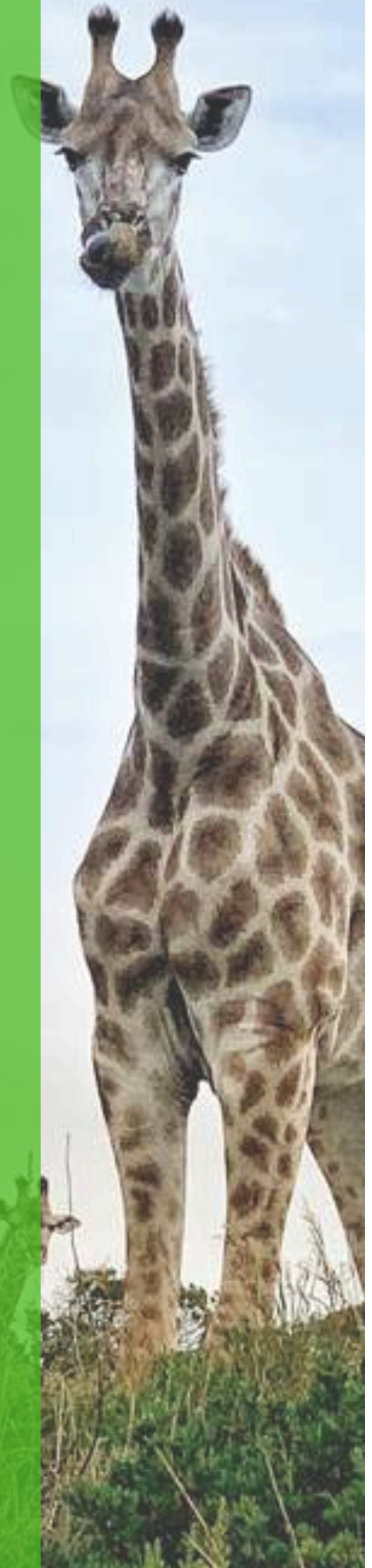


A poster competition was conducted to raise awareness about clean water, sustainable practices, and the protection of marine ecosystems. Students presented creative and thought-provoking posters highlighting causes and consequences of water pollution, along with innovative solutions for purification and conservation. The activity emphasized the connection between water quality and the survival of marine life, promoting environmental responsibility. It aligned with SDG 14, particularly Target 14.1, by encouraging awareness on reducing water pollution and protecting aquatic ecosystems. The initiative fostered creativity, critical thinking, and environmental consciousness among students. It contributed to promoting sustainable practices and safeguarding marine biodiversity.



SDG 15

LIFE ON LAND



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Land Ecosystem Awareness Talk
2	Exploration Of Biofilms In Secondary Infections
3	Prevention Of Signaling Among Disease Causing Bacteria
4	Fungal Fixers Poster Presentation
5	Climate Hackathon for Land Sustainability
6	World Environment Day





ACTIVITY 01: LAND ECOSYSTEM AWARENESS TALK

Organized By:
The Department of Bioinformatics & Biosciences



An educational FM talk was conducted to raise awareness about food safety, microbial contamination, and their connection with land and environmental health. The session highlighted how degraded soil, poor land management, and unsustainable agricultural practices contribute to the presence of harmful microorganisms in the food chain. Key issues such as improper waste disposal, unsafe irrigation, and land-based pollution were discussed as major factors affecting food safety and public health. The initiative emphasized the link between terrestrial ecosystems and safe food systems, particularly for vulnerable populations. It aligned with SDG 15, especially Target 15.1, by promoting the protection and sustainable use of land ecosystems. The activity encouraged responsible environmental practices and awareness to ensure long-term ecological balance and food safety.





ACTIVITY 02: PLASTIC-FREE CHALLENGE AWARENESS DESK

Organized By:
The Department of Bioinformatics & Biosciences



A desk-based awareness activity was conducted to promote environmentally responsible behavior and reduce plastic pollution impacting terrestrial ecosystems. Informative posters and discussions highlighted how plastic waste degrades soil quality, disrupts water infiltration, and affects plant growth and agricultural productivity. The initiative emphasized the role of reducing plastic use in preventing land degradation and supporting ecosystem restoration. It aligned with SDG 15, particularly Targets 15.1, 15.3, and 15.5, by promoting conservation of land ecosystems, combating degradation, and protecting biodiversity. Participants explored the impact of plastic on soil organisms and wildlife, encouraging sustainable alternatives such as reusable and biodegradable materials. The activity fostered environmental awareness and responsible practices for the long-term protection of life on land.





ACTIVITY 03: FUNGAL INNOVATIONS FOR ENVIRONMENTAL CONSERVATION

Organized By:
The Department of Bioinformatics & Biosciences

	<p>covering. They resemble plant roots and can branch.</p>	<p>spread long distances in soil/wood. - Provide survival advantage.</p>	
<p>Haustrorium (pl. Haustoria)</p>	<p>Specialized hyphal outgrowths that penetrate host cells but remain outside plasma membrane (surrounded by host membrane → haustorial complex).</p>	<p>- Absorb nutrients from host cells. - Essential for parasitic fungi. - Facilitate host-pathogen interactions.</p>	<p><i>Puccinia graminis</i> (wheat rust), <i>Erysiphe</i> spp. (powdery mildew), <i>Albugo candida</i> (white rust).</p>
<p>Sclerotium (pl. Sclerotia)</p>	<p>Compact, hardened, dark-colored masses of hyphae with a tough rind and internal storage tissue.</p>	<p>- Perennation (survival in unfavorable conditions). - Germinate to form fruiting bodies or hyphae when conditions improve. - Act as nutrient reserves.</p>	<p><i>Claviceps purpurea</i> (ergot), <i>Sclerotium rolfsii</i>, <i>Rhizoctonia solani</i>.</p>

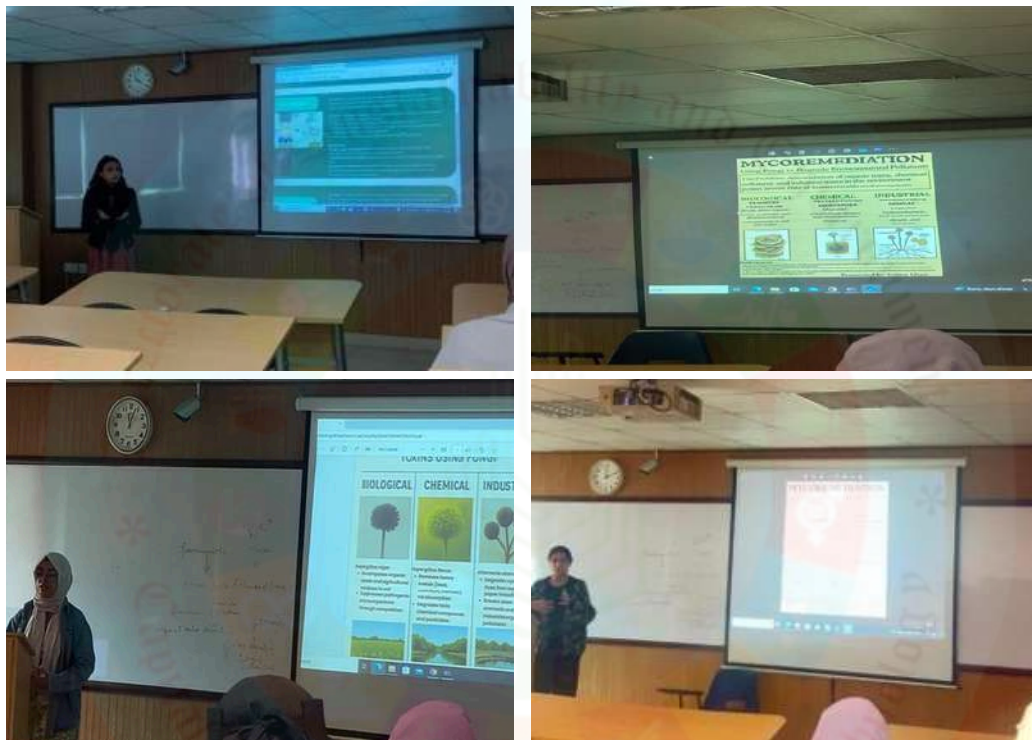
An academic activity was conducted to explore fungal modifications and their role in environmental conservation through assignments, presentations, and class discussions. Students examined fungal structures, adaptations, and ecological functions, highlighting their contributions to soil fertility, nutrient cycling, plant growth, and ecosystem stability. The session emphasized practical applications such as mycoremediation, biofertilizers, and organic waste decomposition in restoring degraded land. It aligned with SDG 15, particularly Targets 15.1, 15.3, and 15.5, by promoting conservation of terrestrial ecosystems, land restoration, and biodiversity protection. The activity strengthened understanding of fungi as essential components of sustainable land management. It fostered critical thinking and encouraged nature-based solutions for environmental sustainability.





ACTIVITY 04: FUNGAL FIXERS POSTER PRESENTATION

Organized By:
The Department of Bioinformatics & Biosciences



A poster presentation activity titled “Fungal Fixers: Harnessing Biosciences to Heal the Planet” was conducted to highlight the ecological importance of fungi in maintaining terrestrial ecosystems. Students showcased posters on fungal roles in soil fertility, nutrient cycling, biodegradation, plant symbiosis, and land restoration. The activity emphasized applications such as mycoremediation, organic waste decomposition, and sustainable soil management. It aligned with SDG 15, particularly Targets 15.1, 15.3, and 15.5, by promoting ecosystem conservation, land restoration, and biodiversity protection. The initiative enhanced awareness of fungi as key contributors to environmental sustainability. It strengthened students’ understanding of nature-based solutions for protecting life on land.





ACTIVITY 05: CLIMATE HACKATHON FOR LAND SUSTAINABILITY

Organized By:
The Department of Bioinformatics & Biosciences



A Climate Hackathon was conducted to promote innovative solutions addressing land degradation, biodiversity loss, deforestation, and sustainable land-use practices. Students presented models, posters, and conceptual ideas highlighting forest conservation, wildlife protection, and restoration of degraded ecosystems. The activity encouraged interdisciplinary collaboration, critical thinking, and practical problem-solving related to environmental challenges. It aligned with SDG 15, particularly Targets 15.1, 15.3, and 15.5, by supporting sustainable use of land, ecosystem restoration, and biodiversity conservation. The initiative emphasized the role of youth-driven innovation in protecting terrestrial ecosystems. It contributed to strengthening environmental awareness and fostering sustainable, nature-based solutions.





ACTIVITY 06: WORLD ENVIRONMENT DAY

Organized By:
The Department of Bioinformatics & Biosciences



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



SDG 16

PEACE, JUSTICE, AND
STRONG INSTITUTION



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Youth Engagement for Peace, Justice, and Strong Institutions
2	Promoting Equality, Respect, and Social Justice Through Inclusive Student Engagement
3	Fostering Peaceful Coexistence and Social Cohesion Through Cultural Inclusion
4	Advancing Inclusive Institutions and Strategic Partnerships to Empower Women Entrepreneurs
5	Education to Employment & Inclusive Systems Seminar
6	Elevator Pitch Competition for Inclusive Innovation
7	Financial Literacy & Inclusive Awareness Seminar
8	Currency Awareness & Financial Security Seminar
9	International Day of Solidarity with the Palestinian People

16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 01:

YOUTH ENGAGEMENT FOR PEACE, JUSTICE, AND STRONG INSTITUTIONS

Organized By:
The Department of Management Sciences



The State Bank of Pakistan organized an orientation session at NIBAF, which I attended as part of the Student Ambassador Program, with a focus on strengthening awareness of good governance, institutional transparency, and inclusive decision-making in Pakistan. The session provided a comprehensive introduction to the role of strong and accountable institutions in promoting peace, justice, and public trust, emphasizing how effective regulatory frameworks, ethical financial practices, and institutional integrity contribute to social stability and protection of rights. Its impact was reflected in participants' enhanced understanding of institutional accountability, increased commitment to promoting justice and social cohesion, and motivation to actively contribute to building resilient and trustworthy institutions. The session strongly aligned with SDG 16: Peace, Justice, and Strong Institutions, particularly advancing Target 16.1 by promoting peaceful and inclusive societies through awareness and dialogue, and Target 16.2 by reinforcing the importance of institutional safeguards that protect individuals and communities from injustice and exploitation.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 02:

PROMOTING EQUALITY, RESPECT, AND SOCIAL JUSTICE THROUGH INCLUSIVE STUDENT ENGAGEMENT

Organized By:
The Department of Management Sciences



The Directorate of Sustainability and Environment, in collaboration with the Jinnah Management Society, organized a Cooking Competition at the university as a progressive and engaging initiative aimed at challenging deep-rooted gender stereotypes and promoting fairness, dignity, and equal participation among students. By actively encouraging male involvement alongside female participants, the event addressed societal biases and emphasized that skills and interests should not be restricted by gender. The competition created an inclusive platform that fostered mutual respect, confidence, and open dialogue on social justice and equality within the campus community. The event strongly aligned with SDG 16 particularly advancing Target 16.1 by fostering a peaceful and inclusive society through respectful engagement, and Target 16.2 by reinforcing protection against discrimination and harmful social norms through awareness and institutional support.





ACTIVITY 03: FOSTERING PEACEFUL COEXISTENCE AND SOCIAL COHESION THROUGH CULTURAL INCLUSION

Organized By:
The Department of Management Sciences



The Directorate of Sustainability and Environment organized the Food & Cultural Fest as an engaging and inclusive initiative designed to promote unity, mutual respect, and peaceful coexistence among students from diverse cultural, ethnic, and socioeconomic backgrounds. The event provided an open and welcoming platform for students to express their cultural identities through music, art, traditions, and cuisine, encouraging dialogue and understanding across differences. By breaking social barriers and celebrating diversity, the fest aimed to strengthen social harmony and foster a shared sense of belonging within the campus community. The event strongly aligned with SDG 16 particularly advancing Target 16.1 by promoting peaceful and inclusive societies through cultural understanding, and Target 16.2 by supporting institutional efforts to reduce discrimination and social exclusion through awareness, participation, and respect for diversity.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 04: ADVANCING INCLUSIVE INSTITUTIONS AND STRATEGIC PARTNERSHIPS TO EMPOWER WOMEN ENTREPRENEURS

Organized By:
The Department of Management Sciences



A Women Entrepreneurship Day event was conducted to promote inclusive economic participation and strengthen institutional support for women entrepreneurs. The initiative provided a platform for women-led businesses to showcase products, engage with markets, and build professional networks through interactive stalls and activities. It highlighted the importance of reducing barriers to entrepreneurship and fostering equal economic opportunities through institutional support and collaboration.

The activity aligned with SDG 16, particularly Targets 16.1 and 16.6, by promoting inclusive systems, strengthening trust in institutions, and supporting social cohesion through equitable economic participation. It emphasized the role of transparent and accountable institutions in enabling fair opportunities for all.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 05:

EDUCATION TO EMPLOYMENT & INCLUSIVE SYSTEMS SEMINAR

Organized By:
The Department of Management Sciences



A seminar titled “Education to Employment: Reduced Inequalities for Pakistan’s Future Graduates” explored the role of inclusive institutions and informed policymaking in creating equitable workforce opportunities. The session highlighted emerging career pathways such as fintech, digital marketing, entrepreneurship, and remote work, while addressing challenges including unequal access to education, skills gaps, and socioeconomic disparities. Discussions emphasized the importance of skill-based learning, transparent employment systems, and inclusive policies to ensure equal opportunities for all graduates.

The initiative aligned with SDG 16, particularly Targets 16.1, 16.6, and 16.7, by promoting inclusive societies, strengthening accountable institutional frameworks, and encouraging participatory dialogue that considers diverse and underrepresented groups. It contributed to raising awareness about fair employment practices and fostering a more equitable and opportunity-driven workforce.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 06: ELEVATOR PITCH COMPETITION FOR INCLUSIVE INNOVATION

Organized By:
The Department of Management Sciences



An Elevator Pitch Competition was conducted to provide a fair and inclusive platform for students from diverse academic backgrounds to present innovative business ideas. The activity promoted entrepreneurial thinking, confidence building, and cross-disciplinary collaboration by encouraging merit-based evaluation and equal participation. It emphasized transparency, inclusivity, and respect in idea presentation and assessment, fostering a supportive academic environment.

The initiative aligned with SDG 16, particularly Targets 16.1, 16.6, and 16.7, by promoting inclusive engagement, reinforcing transparent and fair processes, and encouraging participatory decision-making. It contributed to strengthening a culture of equity, innovation, and responsible entrepreneurship within the student community.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 07: FINANCIAL LITERACY & INCLUSIVE AWARENESS SEMINAR

Organized By:
The Department of Management Sciences



A seminar titled “Financial Literacy for All: A Step towards Reducing Inequality” was conducted to enhance students’ understanding of responsible financial practices in an inclusive academic environment. The session covered essential topics such as budgeting, saving, investing, and informed financial decision-making, helping students from diverse backgrounds build practical financial skills. Expert insights highlighted the importance of accessible financial education in reducing economic vulnerabilities and promoting informed choices.

The initiative aligned with SDG 16, particularly Targets 16.1, 16.6, and 16.7, by promoting inclusive participation, strengthening institutional responsibility in education, and ensuring equitable access to knowledge and decision-making resources. It contributed to building financial awareness, confidence, and a more inclusive and informed student community.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 08: CURRENCY AWARENESS & FINANCIAL SECURITY SEMINAR

Organized By:
The Department of Management Sciences



A seminar was conducted to educate students on identifying genuine currency and safeguarding against counterfeit practices, promoting financial awareness and institutional trust. The session provided practical knowledge of currency security features, enabling students from diverse backgrounds to participate confidently in the formal financial system. It emphasized fairness, transparency, and informed participation as key components of economic stability and responsible citizenship.

The initiative aligned with SDG 16, particularly Targets 16.1, 16.6, and 16.7, by supporting social stability through financial awareness, strengthening trust in accountable institutions, and ensuring inclusive access to essential financial knowledge. It contributed to enhancing financial responsibility and fostering confidence in regulated economic systems.



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



ACTIVITY 09: INTERNATIONAL DAY OF SOLIDARITY WITH THE PALESTINIAN PEOPLE

Organized By:
The Department of Pharmacy



The FM talk conducted in observance of the International Day of Solidarity with the Palestinian People primarily aligns with SDG 16: Peace, Justice and Strong Institutions, as it focused on promoting humanitarian justice, global responsibility, and awareness of human rights issues. The discussion highlighted challenges such as displacement, limited access to healthcare, and the need for international cooperation, fostering critical reflection among students on peace and social justice. By encouraging informed dialogue, ethical citizenship, and collective advocacy, the activity supported Targets 16.1, 16.3, and 16.7, which emphasize peaceful societies, protection of rights, and inclusive participation. The session strengthened students' understanding of global citizenship and reinforced the importance of unity, awareness, and responsible action in building just and sustainable societies.



SDG 17

PARTNERSHIP FOR
THE GOALS



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Stronger Together: Policies and Partnerships
2	Strengthening Institutional Collaboration for Student Health and Sustainable Development
3	Collaborative Engagement for Informed Global Education Pathways
4	Strengthening Academic-Professional Partnerships for Research and Writing Skills
5	Women Entrepreneurship & Institutional Inclusion Event



17 PARTNERSHIPS
FOR THE GOALS



ACTIVITY 01: STRONGER TOGETHER: POLICIES AND PARTNERSHIPS

Organized By:
The Department of Accounting and Finance



The Department of Accounting and Finance organized an awareness walk under supervision of Ms. Sadaf Adalat with titled “Stronger Together: Policies and Partnerships,” featuring SDG-17 Ambassador Muhammad Asad Abdullah (BAF243031) as the keynote speaker. The event aimed to highlight the importance of global collaboration, effective policy-making, and strategic partnerships for sustainable development. A banner, A3 posters, and informative charts were displayed to enhance student engagement and create visual awareness about SDG-17. The session concluded with an interactive discussion, where students actively participated and gained valuable insights into how collective efforts can drive meaningful progress.



17 PARTNERSHIPS
FOR THE GOALS



ACTIVITY 02:

STRENGTHENING INSTITUTIONAL COLLABORATION FOR STUDENT HEALTH AND SUSTAINABLE DEVELOPMENT

Organized By:
The Department of Accounting and Finance



The seminar titled “Strengthening Institutional Collaboration for Student Health and Sustainable Development”, organized by the Occupational Safety & Health (OSH) Club in collaboration with the Jinnah Management Society (JMS) at the Capital University of Science and Technology (CUST), aimed to raise awareness about physical and mental wellbeing among students. Featuring Dr. Kiran Naz, a healthcare management lecturer and researcher, the session highlighted the importance of maintaining a balanced lifestyle to enhance focus, productivity, and academic performance. The activity aligns with SDG 17, specifically Target 17.17, by fostering effective institutional partnerships through collaboration between the Occupational Safety & Health (OSH) Club and the Jinnah Management Society (JMS). This joint effort demonstrates the value of cross-society collaboration within the university to address shared sustainability and wellbeing objectives.



17 PARTNERSHIPS
FOR THE GOALS



ACTIVITY 03: COLLABORATIVE ENGAGEMENT FOR INFORMED GLOBAL EDUCATION PATHWAYS

Organized By:
The Department of Accounting and Finance



The seminar titled “Paragon: Overseas Education” was organized by SAFE Society to support SDG 17: Partnerships for the Goals, with a focus on Target 17.17, which emphasizes effective public, public-private, and institutional partnerships. The event brought together academic leadership and education professionals, with Mr. Sardar Hanzla Tariq (Head of Department) and Mr. Syed Tassawar Hussain (Director Paragon Overseas Education) sharing their expertise on international education pathways. The seminar highlighted the role of institutional collaboration, knowledge sharing, and expert engagement in guiding students toward informed global education opportunities. By facilitating dialogue between academic departments, student societies, and education professionals, the event strengthened cooperative frameworks that support student development, international exposure, and sustainable educational planning.



17 PARTNERSHIPS
FOR THE GOALS



ACTIVITY 04:

STRENGTHENING ACADEMIC- PROFESSIONAL PARTNERSHIPS FOR RESEARCH AND WRITING SKILLS

Organized By:
The Department of Accounting and Finance



SAFE Society organized an orientation session on the “PRIZE National Article Writing Competition 2025” in alignment with SDG 17: Partnerships for the Goals, particularly Target 17.17, which emphasizes effective public, private, and institutional partnerships. The session was delivered by Mr. Qanit Khalil Ullah, Chairman of PRIZE, reflecting a collaborative engagement between a student society and a national professional platform. The orientation aimed to strengthen students’ academic writing, critical thinking, and research skills through structured guidance on article development and competition objectives. Through expert-led knowledge sharing and institutional collaboration, the activity enhanced students’ research competencies while demonstrating the role of partnerships in advancing inclusive, skills-oriented quality education.



17 PARTNERSHIPS
FOR THE GOALS



ACTIVITY 05:

WOMEN ENTREPRENEURSHIP & INSTITUTIONAL INCLUSION EVENT

Organized By:
The Department of Management Sciences



A Women Entrepreneurship Day event was conducted to promote inclusive economic participation and strengthen institutional support for women entrepreneurs. The initiative provided a platform for women-led businesses to showcase products, engage with markets, and build professional networks through interactive stalls and activities. It highlighted the importance of reducing barriers to entrepreneurship and fostering equal economic opportunities through institutional support and collaboration.

It also aligned with SDG 17, particularly Targets 17.16 and 17.17, by encouraging multi-stakeholder collaboration and fostering public-private partnerships to support sustainable and inclusive entrepreneurship. The initiative contributed to strengthening cooperative efforts for long-term economic and social development.

