

# SDG 06

## CLEAN WATER & SANITATION

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## LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Clean Water and Sanitation Quiz
2	AI Revolutionizing Civil Engineering
3	Water Filtration Competition
4	Water Quality Testing
5	FM Talk on Water Conservation
6	Awareness Desk on Save Water
7	Awareness Walk on Save Water
8	Training on WaterGEMS and SewerGEMS Software
9	Save Water Campaign
10	Poster Competition on Water Conservation
11	Presentation on water conservation
12	Workshop on “Water Quality Analysis using EPANET”





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## ACTIVITY 01:

### CLEAN WATER AND SANITATION QUIZ

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



ASCE organized an impactful Quiz Competition. This event aimed to assess the knowledge of students of Civil Engineering related to efficient use of water. This quiz drive aligned with SDG Target 6.a, which focuses on ensuring access to clean water, preservation, and efficient use of water resources for all people. Through this effort, community spirit was fostered, taking a step toward building a more inclusive and supportive campus environment by addressing clean water and its preservation and well-being for all. The competition had a winner and a runner up from the Civil Engineering Department. By meeting the basic needs of the community, the quiz reinforced the importance of shared responsibility in achieving sustainability in planning, utilization of water resources and preservation of water for the future generations.



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## ACTIVITY 02: AI REVOLUTIONIZING CIVIL ENGINEERING

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



ASCE organized a seminar on the topic “AI Revolutionizing Civil Engineering”. The event connected to SDG 6, emphasizing clean water and sanitation. By educating engineers and students about AI-powered solutions for water management, such as predictive maintenance, optimized distribution systems, and water quality monitoring, the seminar highlighted the importance of technology in ensuring sustainable water resources. This initiative aligns with SDG 6.3, focusing on improving water quality. By discussing AI-powered traffic management and urban planning solutions, the event emphasized the role of technology in creating sustainable and resilient cities. Overall, this initiative engaged participants with the critical components of SDGs 6, encouraging them to consider their roles in creating a sustainable future.



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## ACTIVITY 03: WATER FILTRATION COMPETITION

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



ASCE organized a water filtration competition. This initiative directly aligned with SDG 6, specifically, this initiative connected to Target 6.3: Improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally by 2030. By challenging students to design and build innovative water filtration systems, the competition encouraged them to develop practical solutions to address water quality challenges and contribute to achieving this critical SDG.





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## ACTIVITY 04: WATER QUALITY TESTING

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



ACE organized a Water Quality Testing event, an initiative that directly aligns with Sustainable Development Goal (SDG) 6: Clean Water and Sanitation. This event aimed to raise awareness about the importance of water quality and equip participants with practical skills to assess and address water-related challenges in their communities. The initiative specifically connects to Target 6.3 of SDG 6, which focuses on improving water quality by reducing pollution, eliminating dumping, and minimizing the release of hazardous chemicals and materials. By engaging participants in hands-on water quality testing activities, the event emphasized the need to monitor and protect water resources, ensuring safe and clean water for all.





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## ACTIVITY 05: FM TALK ON WATER CONSERVATION

**Organized By:**  
**The Green Youth Movement Club**



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



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### ACTIVITY 06:

### SAVE WATER CAMPAIGN: AWARENESS DESK

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



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



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### ACTIVITY 07: SAVE WATER CAMPAIGN: AWARENESS WALK

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



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



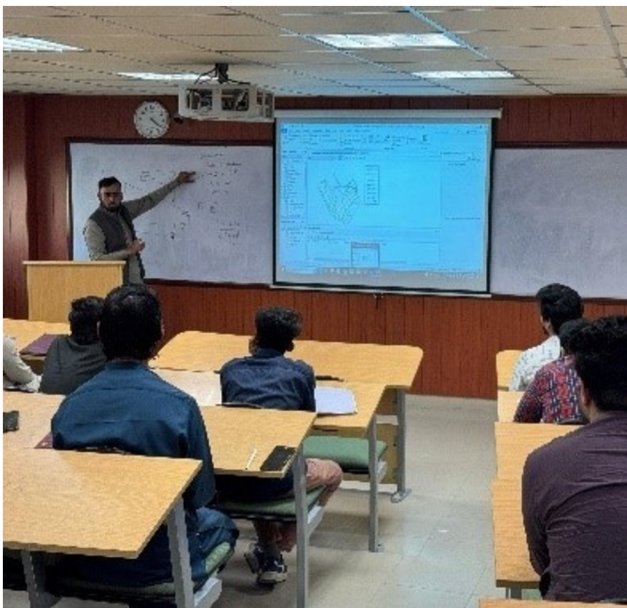


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## ACTIVITY 08: TRAINING ON WATERGEMS AND SEWERGEMS SOFTWARE

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



A training session was organized by ASCE for students on the use of the WaterGEMS and SewerGEMS software, aligning with Sustainable Development Goal 6 (Clean Water and Sanitation). The session aimed to enhance students' practical skills in modern hydraulic modelling tools used for designing and analyzing water distribution and sewer systems. The industry professional provided hands-on demonstrations, guiding participants through real-world scenarios involving network planning, leak detection, pressure management, and wastewater flow analysis. The training not only bridged the gap between academic learning and industry practices but also emphasized the role of technology in achieving efficient and sustainable water infrastructure. Students gained valuable decision making and resource management in line with SDG 6.4, which promotes water-use efficiency and sustainable freshwater management. The session concluded with interactive Q&A, encouraging students to explore careers in water resource engineering and infrastructure planning.





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## ACTIVITY 09: SEMINAR ON SAVING WATER

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



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

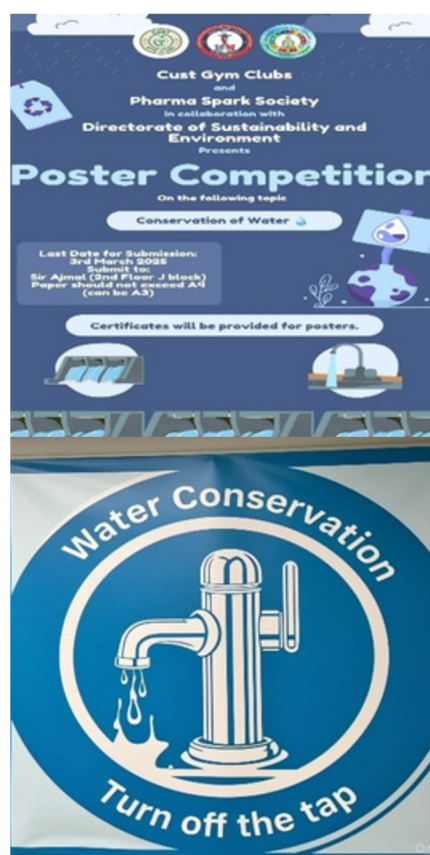


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# ACTIVITY 10: POSTER COMPETITION ON WATER CONSERVATION

**Organized By:**  
**The Department of Pharmacy**



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



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## ACTIVITY 11: PRESENTATIONS ON WATER CONSERVATION

**Organized By:  
The Department of Pharmacy**



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



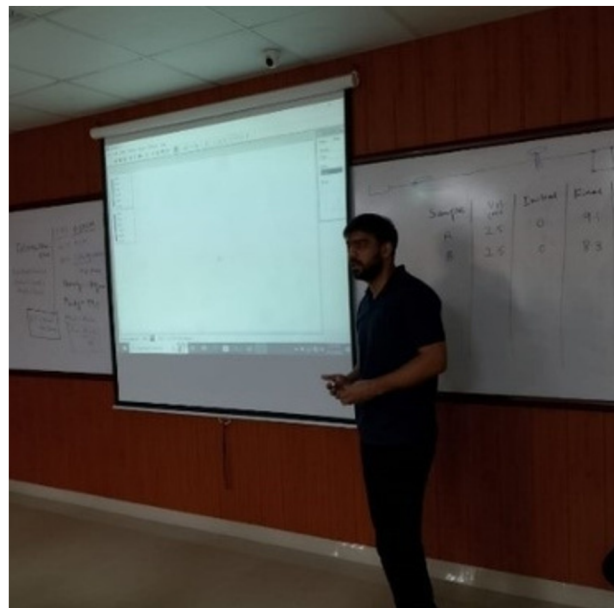


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## ACTIVITY 12: WORKSHOP ON “WATER QUALITY ANALYSIS USING EPANET”

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



ASCE successfully organized a specialized workshop focusing on Water Quality Analysis using EPANET, conducted on June 12, 2025, with active participation from its students. The session was skillfully facilitated by Engr. Minhas Shah. The training centered on equipping students with practical experience in comprehensive water quality modeling within distribution networks, a critical skill in environmental engineering, directly aligning academic knowledge with current industry practices. Students received hands-on exposure through live demonstrations, learning key aspects such as network input, hydraulic modeling, constituent transport analysis (e.g., chlorine decay, contaminant tracking), and water age determination. This initiative is directly linked to Sustainable Development Goal 6: Clean Water and Sanitation, particularly supporting the sub-clause of SDG 6, 6.3, which emphasizes improving water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials.

