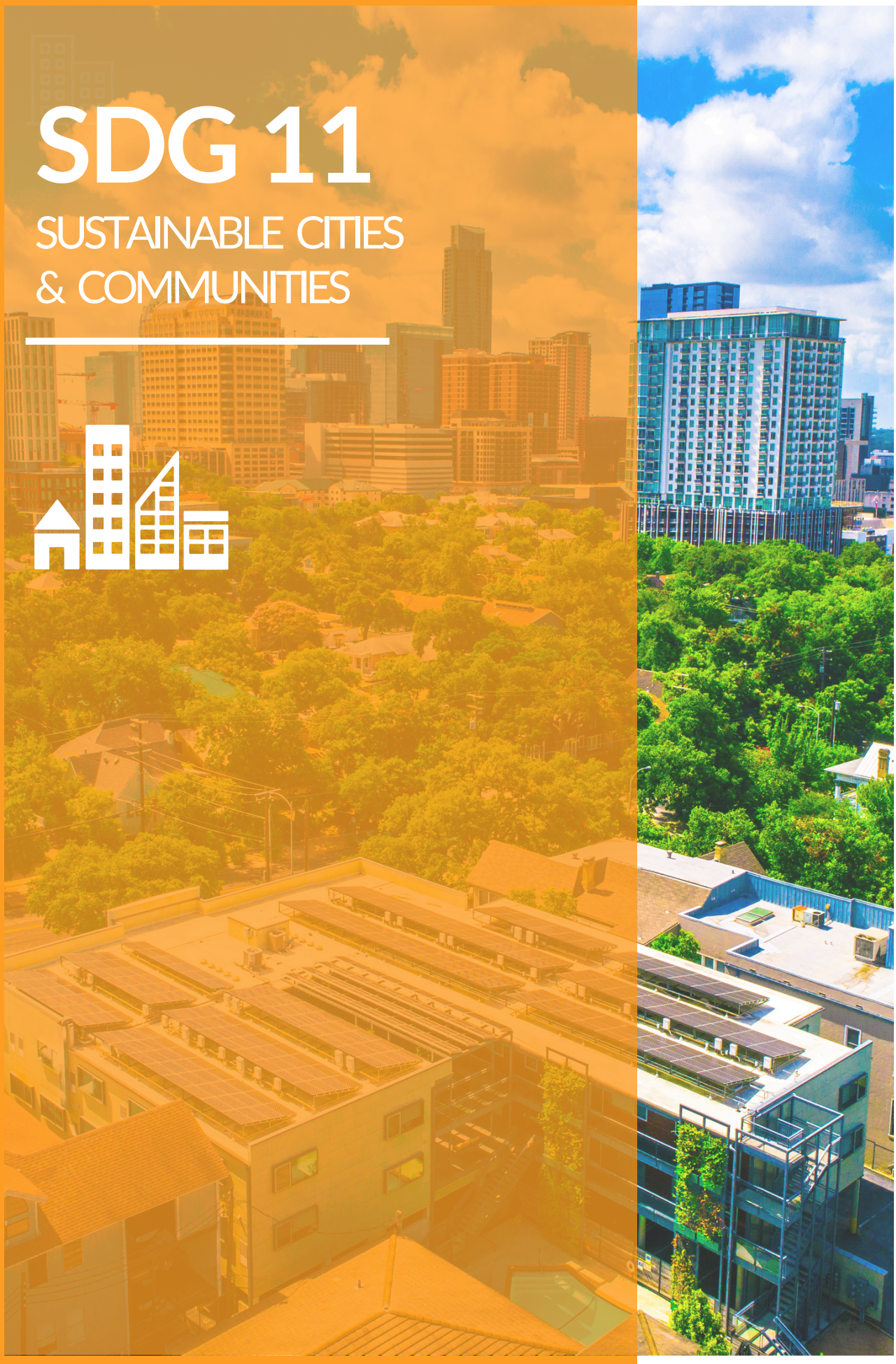
SDG 11

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.

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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.

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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.