

# **Infrastructure Design Challenge – Smart Sustainable Urban Design Model**

## **1.Event Objectives**

The objective of the Infrastructure Design Challenge – Smart Sustainable Urban Design Model is to inspire students to develop innovative, practical, and sustainable urban infrastructure solutions by applying their academic knowledge and technical skills to real-world environmental challenges.

## **2.Theme**

### **Smart Sustainable Urban Design Model**

Examples include (but are not limited to):

- Rainwater harvesting
- Green roofing
- Energy-efficient building
- Water purification
- Other sustainable concepts

## **ELIGIBILITY & TEAM DETAILS**

- Eligibility: B.Tech Students
- Inter-disciplinary teams are allowed.
- Each participant can be part of only one team.

## **Team Composition**

Team size: 2 to 4 members

One team leader must be designated.

All members need not belong to the same branch

# Design & Development Platform

Participants must use any one of the following platforms:

- SKETCHUP
- 3DS MAX
- AutoCAD
- REVIT

(Other software is not permitted unless prior approval is obtained from the organizers.)

## Expected Deliverables

Deliverables for the Infrastructure Design Challenge

1. Design Report: A detailed report explaining the smart sustainable urban design model, including:

- Project overview and objectives
- Design concept and methodology
- Technical details and specifications
- Sustainability features and benefits

2. Design Files: The design files created using the approved software platforms (SKETCHUP, 3DS MAX, AutoCAD, or REVIT)

3. Presentation Slides: A set of slides summarizing the project, highlighting key features and innovations

## Evaluation Criteria

The evaluation criteria may include:

1. Innovation and Creativity (25%): Originality and uniqueness of the design concept

2. Sustainability and Environmental Impact(15%): Effectiveness of the design in reducing environmental impact and promoting sustainability
3. Technical Feasibility (15%): Practicality and feasibility of the design
4. Design Quality and Aesthetics (25%): Visual appeal and overall design quality
5. Teamwork and Presentation(20%): Clarity, effectiveness, and teamwork in presenting the design

#### EVENT DETAILS

Date: 20/02/2026 , 21/02/2026

Venue: CFS, FISAT

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