



RULEBOOK



STRUCTURAL SUDOKU



**ORGANIZED BY:
ASCE STUDENT CHAPTER, DUET**



**IN COLLABORATION WITH:
DEPARTMENT OF CIVIL ENGINEERING, DUET**

Structural Sudoku, a premier segment of **CEvilization Season 2** organized by the **ASCE Student Chapter, DUET**, challenges undergraduate students to engage in a structural engineering competition. Participants will explore the complexities of structural behavior by modeling, analyzing and solving problems under gravity and lateral loads through the application of **ETABS software**. Competitors will evaluate key structural responses such as shear forces, bending moments, deflection, sway, torsional irregularity, and overall stability. In addition to analysis, the event encompasses the design of essential reinforced concrete elements, including beams, columns, and slabs. “**Structural Sudoku**” serves as a platform for aspiring engineers to demonstrate their analytical proficiency, verify their software-based knowledge, and enhance their practical understanding of structural systems. Through this experience, participants can elevate their skills and establish themselves as emerging talents in the field of structural engineering.

Rules and Regulations:

1. Participants must be undergraduate students; individuals with professional design backgrounds are ineligible;
2. Individual registration is mandatory;
3. The authority will provide the required computer for ETABS-2022 analysis and extra paper for calculations. Use of a personal computer or extra sheets of paper is strictly prohibited;
4. All questions will be prepared by the designated jury members;
5. The authority will follow BNBC 2020 for necessary data, which will be provided during the competition;
6. Competition duration is two hours.

Syllabus:

- Modeling, analysis, and structural checking (Base Shear, Story Drift, Torsional Irregularity, P-Delta, Deflection, and Overturning checks as per BNBC-2020), along with the design of a reinforced concrete building.

Compliance Guidelines for Olympiad:

- ❑ Follow all competition and host university rules strictly;
- ❑ Plagiarism or cheating will result in immediate disqualification;
- ❑ Judges' decisions will be final in all respects;
- ❑ Adhere to host University's conduct standard without exception;
- ❑ Organizing committee reserves the right to modify rules as required for fairness;
- ❑ Any violations may lead to disqualification from the competition;
- ❑ Ensure compliance with all safety protocols outlined by the host University.

EVALUATION CRITERIA

The evaluation process will prioritize

- ❑ Modeling : 40
- ❑ Calculation and application of gravity and lateral loads : 20
- ❑ Analysis : 10
- ❑ Checking : 20
- ❑ Design : 10

Total prize money : 18K+ BDT

- ❑ Along with prize money, a **Gorgeous Crest** and winning **Certificate** will be offered to the winners of this **Structural Sudoku** segment.

Registered Participants will receive :

- ❑ Event kit (T- Shirt, Merchandise and ID card);
- ❑ Breakfast and lunch;
- ❑ Participation certificate;
- ❑ Transport facilities (from DUET, Gazipur to Dhaka on specific route).

Note: The rules and guidelines outlined here are subjected to change at the discretion of the organizing committee. Participants are advised to regularly check the updates and announcements regarding the competition.

RESISTRATION PROCESS

Registration Fee: 500 BDT/person

Registration Deadline: 01 January 2026

Registration link: <https://ascechapter.duet.ac.bd/cevilization/7>

Event Date: 10 January 2026

Event Schedule: 11:00 am

Event Link: <https://www.facebook.com/events/911787247843323>

For any queries :

◆ **Name:** Hasibul Islam
Contact No. : +880 1518750518

Email: hasibulhp1@gmail.com

◆ **Name:** Shihab Uz Zaman
Contact No: +88 01843260268

Email: shihabmd290@gmail.com

Website : www.ascechapter.duet.ac.bd

Email : cevilizationduet@gmail.com

Facebook Page : [CEvilization](#)