

CADATHON

BRIEF INTRODUCTION OF THE EVENT

This competition aims to develop the idea of Engineering Drawing and modelling of 3D structures on a CAD software. This event will be organized by the Society of Automotive Engineers (SAE), IEST Shibpur under the banner of “**Impetus 9.0**”.

OBJECTIVE

Initially, the organizing team will provide a problem statement with a figure given and the participants will have to draw all 3 views of the figure or made 3D model of the structure on CAD software within the speculated time.

BASIC INFORMATION

- Registration – Till 1 hour before commencement of Round 1
- Participation – • **Round 1:** Team event (maximum **2 participants per team**;
Individual participation is also allowed)
• **Round 2:** Individual Participation
- Venue – Department building (IEST Shibpur)
- No. of Rounds – 2
- Duration of each round – Round 1 – 40 min
Round 2 – 60 min
- Prizes worth Rs. 8k/-
- You have to bring your laptop with SolidWorks installed and charger. We'll arrange some charging ports. You will not be allowed to use internet during this.
- Questions will be displayed. You can ask coordinators for clarification.
- We'll provide drawing sheets if you opt for that while registering.

FLOW OF THE EVENT

CADathon will be conducted in two rounds.

In Round 1, participants will work in teams to design multiple components of a given model and create the final assembly based on the provided problem statement.

In Round 2, participants will be given a new problem statement, and they will be required to develop a 3D model based on their own innovative idea, ensuring it aligns with the given problem statement.

RULES AND REGULATIONS

- Registered candidates are to be present in the department building before the commencement of the event.
- Round 1 –
 - Each team will be provided with a problem statement.
 - Participants are required to bring their own laptop with any CAD

software installed in it.

- Participants need to design the components of the given problem statement as per dimensions and finally have to make the assembly.
- Or, participants have to draw the front, top and side view of the of the final assembly in drawing sheet.
- Evaluation will be done based on accuracy and time consumed.
- Time: 30% weightage and Accuracy: 70% weightage

□ Round 2 –

- Participants will be provided a problem statement and everyone will have to come up with the 3D model of their own idea aligning with the problem statement. Or, have to draw the top, front and side view of their unique model.
- Participants will be evaluated based on accuracy and time.
- Time: 30% weightage and Accuracy: 70% weightage

FAQ

1. Is there a specific CAD software recommended or preferred for the competition? A: SolidWorks is preferred.
2. Will the evaluation be carried out live, or will participants submit their models/drawings for later review?
A: You have to submit the model in a pen drive.
3. What happens if two participants achieve identical scores in terms of accuracy and time? Is there a tie-breaker mechanism?
A: No. there will not be tie-breaker. Reward will be distributed.
4. Can participants register after the first round if slots are still available, or is it strictly one-time registration?
A: You can participate in second round but you will not get any points in 1st round.
5. Can participants use free or crack version of CAD software if they do not have full access to licensed software?
A: Yes, you can use any of licensed or crack version of CAD software.

** If any team faces any problem, they are supposed to report to the Event Co-ordinator or Pool Volunteer without much delay.

Event Co-ordinators:
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