

CAD-MANIA

➤ **EVENT**

Design is the basic grid in engineering. Every part, product or particle has a basic design. For visualization, understanding, creation and analysis, design plays a key role. In Tech Invent 2018, we provide a platform for designers all round and learn possibilities in the field. CAD provides opportunities to all the innovative designing minds to present their skills and check their capabilities design among the participants across the country. Come unravel your talent. Define! Design! Deliver!

➤ **PROBLEM STATEMENT:**

A 2-D drawing and 3-D mechanical model on the computer using any of these software's , AUTOCAD and SOLIDWORKS .

➤ **THE COMPETITION:**

It consists of three rounds. Limited participants will be taken for the first round. 50% of them will be promoted to the second round. Each round tests various aspects of modeling skills of the participant.

ROUND 1:

The participants shall be provided with a drawing of a mechanical component, for which they need to develop a 3D or 2D view of the component in SOLIDWORKS. Side view, top view and front view of the part will be provided in a hard copy. The accuracy and the speed of the designers will be tested in this round. The selected participants will make their way to the next round based on the time taken to complete the task and accuracy in the design.

ROUND 2:

In the final round, the participants will be provided with drawing sheet about a machine or equipment. Here participants have to make 3d parts. Then they have to give their best shot in designing it; making the model and finally making it to work. Points will be awarded based on their approach onto the design, effectiveness and accuracy in working of the model.

➤ **JUDGING CRITERIA:**

In first round according to the completion of the drawing in set time and accuracy the participants will be selected for the second round and marks will be awarded out of 20.

In second round, qualifying factors are time and accuracy in details of model; accordingly points will be awarded to participants.

For a total of 50 points:

20 points for making the model



10 for accuracy and time being taken, and

20 for working of the model.

The final result will be the aggregate of both the rounds.

➤ **RULES AND REGULATIONS:**

There is no restriction on the number of participants (maximum of 2 in a team) being from any specific branch.

The coordinators reserve the right to disqualify any team in case of any misbehavior.

The number of rounds is liable to change before the event, in case of time unavailability and thus, changes will be informed to applicants before starting of the event.

Every team member has to carry a valid ID of their respective educational institute.

In case of any dispute, the decision of the organizing committee will be final.

➤ **Coordinator**

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