Description

CAD (computer-aided design) is the use of computer-based software to aid in design processes. CAD software is frequently used by different types of engineers and designers. CAD software can be used to create two-dimensional (2-D) drawings or three-dimensional (3-D) models. Students will be required to exhibit their skills of 3-D drafting & assembling.

General Rules

- 1. Only individual participation no group will be allowed.
- 2. Participants must register before the competition.
- 3. Students must be pursing his/her diploma or degree engineering and having expertise in AutoCAD and CREO Parametric 1.0 or NX Student Version.
- 4. Participants must carry his/her college i-card (proof of pursuing) during the entry in competition area.
- 5. No external references, calculators, or additional software are allowed.
- 6. Any form of cheating or plagiarism will result in disqualification.
- 7. All submissions will be reviewed by a panel of judges with expertise in CAD software and technical drawing and that will be final without any excuses.
- 8. Certificate will be awarded to only elite and veteran level participants.
- 9. The decision taken by the Institute and Event coordinators/ Judges will be considered as final.
- 10.Reporting time will be 8:30 AM on the day of Event.

Round 1: Elimination Round

Orthographic to Isometric Sketching

- **Objective:** Convert given orthographic views into an isometric view by sketching.
- **Materials Allowed:** To bring along with the necessary drawing instruments like Pencils, Erasers, Rulers, protractor, rounder, etc.
- Duration: 40 minutes.
- **Submission:** Submit your sketches on the provided paper with your name and roll number written on it.

Evaluation Criteria:

- ✓ Accuracy of the isometric view.
- ✓ Clarity and neatness of the sketch.

The Top 30 Participants will be eligible for the next elite level.

Round 2: AutoCAD Drafting with GD&T

- **Objective:** Create a detailed technical drawing using AutoCAD and provide GD&T (Geometric Dimensioning and Tolerancing) in drawing where it necessary.
- Materials Allowed: Personal computer with AutoCAD installed.
- Duration: 60 minutes.
- **Submission:** Submit the AutoCAD file (.dwg format) and a PDF of the drawing in a suitable A4 size page layout.

Evaluation Criteria:

- ✓ Correct application of GD&T symbols.
- ✓ Accuracy and precision of the drafting.
- ✓ Quality of annotations and overall presentation.

Top 20 Participants will be eligible for next veteran level.

Round 3: Creo Modeling and Assembly

- **Objective:** Create 3D models and assemble them in Creo or NX Student Version.
- Materials Allowed: Personal computer with Creo or NX Student Version installed.
- Duration: 1.5 hours.
- **Submission:** Submit the Creo model files (.prt, .asm) and a PDF of the final assembly drawing.

Evaluation Criteria:

- ✓ Accuracy of the 3D models and assembly.
- ✓ Proper use of Creo features and tools.
- ✓ Quality and clarity of the final assembly drawing.

Top 3 Participants will be winners and awarded as per university's norms.

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