CAD Craze Challenge: Official Rule Book

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1. Introduction

The CAD Craze Challenge is a competition where participants will use computer-aided design (CAD) software to create a detailed 3D model of a given object or component. The objective is to accurately represent the object's geometry, dimensions, and features. The competition evaluates the accuracy, completeness, and efficiency of the 3D models.

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2. Objectives of the Challenge

- Encourage students to showcase their proficiency in CAD software.
- Promote technical understanding of 3D modeling, dimensions, and geometric accuracy.
- Test participants' ability to efficiently create detailed and precise 3D representations of real-world objects or components.
- Foster innovation and practical skills in design and engineering fields.

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3. Competition Format

- **Stage 1: Object or Component Announcement**
  - Participants will receive the technical specifications of an object or component to model at the start of the competition.
  - Detailed sketches, blueprints, or images of the object will be shared with participants.
- **Stage 2: Model Creation**
  - Using professional CAD software (e.g., SolidWorks, AutoCAD, Fusion 360, etc.), participants must create a 3D model based on the provided specifications.
  - The model must include all geometric features, dimensions, and specific details related to the object's functionality.
- **Stage 3: Submission of Final Model**
  - Participants will submit the CAD files along with a Question/Answer session explaining their design choices and any challenges they encountered during the modeling process.

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4. Eligibility Criteria

- Open to university students at the undergraduate or graduate levels.
- Individual participant will be allowed to participate

- Students with a background in engineering, architecture, or industrial design are encouraged to participate.

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5. Modeling Guidelines

- **Software**: Participants are free to use any CAD software, but they must clearly specify the software used.
- **Accuracy**: The model must accurately represent all details and dimensions as per the provided specifications.
- **File Format**: Submissions must include the native CAD file (e.g., .sldprt, .dwg, .f3d) and an export in a universal format (e.g., .stl or .step).

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6. Evaluation Criteria

- **Accuracy (40%)**: How closely the model matches the provided specifications in terms of dimensions, geometry, and features.
- **Completeness (20%)**: Inclusion of all required features, details, and components in the model.
- **Efficiency (20%)**: Efficient use of CAD software tools to achieve the final design without unnecessary complexity.
- **Innovation (10%)**: Use of advanced CAD techniques, such as parametric design, simulation, or rendering.
- **Question/Answer Session (10%)**: The clarity and comprehensiveness of the approaches and features used in the CAD model.

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7. Awards and Prizes

1. **Prize Money:** Winner: 30,000
   1st Runner Up: 20,000
   2nd Runner Up: 10,000
2. **Awards:** The top 3 teams will see their CAD designs transformed into physical models with our advanced 3D printing technology.
3. **Recognition:** Winners will be featured on the event's website and will receive certificates or trophies.

All participants will receive participation certificates, and the top designs will be showcased to industry professionals at the event.

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8. Rules and Regulations

- All participants are required to complete their tasks within a 1-hour time limit.
- Participants have to bring their laptops with the desired CAD software.
- All CAD models must be original work created during the competition period.
- Participants must adhere strictly to the provided object or component specifications.
- The use of external CAD templates or pre-designed models is not allowed.
- Judges' decisions are final, and any violation of the rules will lead to disqualification.

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9. Judging Panel

- The judging panel will include:
  - CAD experts and professionals from the design and engineering industries.
  - Academics specializing in CAD software and 3D modeling.
  - Industry representatives familiar with the application of CAD in real-world projects.

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10. Team Registration

- Teams must register through the official registration form available on the competition's website.
- All team members' names, university affiliations, and contact details must be provided.
- A confirmation email with further competition details will be sent to registered teams.

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11. Contact Information

For any questions or additional information, please contact us at:

Email: contact@teknofestpakistan.com

Website: www.teknofestpakistan.com

Phone: +92 336 8285328