



Learn Beyond

**KPR Institute of  
Engineering and  
Technology**

(Autonomous, Affiliated to Anna University)



**MI QUINIX**  
Mechatronics Student Association

→ **chakravyuhā** →

# **CAD MODELLING**

## **Basic Guideline:**

- **Individual participation only.**

## **Time Allocation:**

- **Total of 3 rounds will be conducted.**
- **30 minutes per round.**

## **Event Format:**

### **Round 1: 2D Drafting Challenge**

- **A moderate 2D isometric view and 2D drawing will be provided.**
- **Participants must complete the task within 30 minutes.**
- **Evaluation will be based on accuracy, quality, and completeness of the drawing.**
- **The first 10–20 participants to successfully finish will qualify for the next round.**

### **Round 2: 3D Modelling Challenge**

- **A 3D component/object drawing will be provided.**
- **Participants must create the CAD model within the given time.**
- **The first 10 participants who complete with quality output will qualify for the final round.**

### **Round 3: Advanced Modelling & Design**

- **A complex 3D assembly/object will be given.**
- **Finalists must complete the task within 30 minutes.**
- **Evaluation will be based on design accuracy, surface finish, constraints applied, and innovation in modelling approach.**
- **Winners will be decided from this round.**

## **Event Protocol:**

- Participants must report at the venue at least 10 minutes before the scheduled time.
- Late reporting will lead to disqualification.
- Participants are encouraged to bring their own laptops with licensed CAD software installed for convenience.
- Preferred software: SolidWorks and Fusion 360 (other standard CAD software may also be used).
- Institute systems with CAD software will also be provided, but prior information will be given before.
- No external storage devices or internet access will be allowed.
- Any form of malpractice will result in immediate disqualification.

## **Evaluation and Jury Decisions:**

### **Technical Aspect**

- Accuracy of Drawings/Models
- Speed of Completion
- Completeness of Features/Constraints Applied
- Surface Finish & Detailing

### **Overall Assessment**

- Balanced consideration will be given to speed, precision, and creativity in CAD modelling.
- The jury's decision will be final and binding.