Ignition-2k25

(Department Of Mechanical Engineering)

Robosoccer

Event Description

Robosoccer is an exciting robotic football (soccer) competition where participants design, build, and control their robots to compete in a fast-paced soccer match. Teams will battle it out in multiple rounds to showcase their robotic skills, strategy, and teamwork.

Eligibility

- Open to all students (Diploma,UG & PG) from any branch and year.

- Participants must register in teams of **max 3 players**.

- Each team must have at least **one self-made or modified robot** that fits within the given specifications.

Event Structure (3 Rounds)

Round 1: Robo Dribble Challenge (Elimination Round)

- Each robot must navigate through a zigzag path while dribbling the ball.

- Time-based challenge; the fastest teams qualify for the next round.

- Maximum time limit: **2 minutes** per team.

- Evaluation criteria: **Speed, control, and accuracy**.

Round 2: Robo-Pass & Shoot (Quarterfinals)

- Teams will perform **robotic passes and goal shots** into a designated goal area.

- Accuracy and passing ability will be tested.

- Top-scoring teams qualify for the final round.

Round 3: RoboSoccer Showdown (Finals)

- A **3-minute** soccer match between two teams.

- Teams must control their robots to score as many goals as possible.

- The team with the most goals at the end of the match wins.

- **Tiebreaker:** Sudden death penalty shootout.

General Rules

1. **Robot Specifications**:

   o Maximum size: **30cm × 30cm × 30cm**.

   o Weight limit: **3kg-5kg**.

   o Wireless/Wired control allowed (within a specified frequency range).

2. **Gameplay Rules**:

   o No physical interference with the opponent's robot.

   o Robots must stay within the field boundary.

   o If a robot malfunctions, teams get **1-minute repair time**.

3. **Fair Play**:

   o Any kind of **intentional damage** to another team's robot will lead to **disqualification**.

   o Judges' decisions are **final and binding**.

Date: 27/03/2025
Time: 10:00 AM – 6:00 PM
Venue: In Front Of Reading Hall , GCOE Jalgaon

Entry: 250/- Per Team.

Prizes & Certifications

♛ **Winner:** ₹10,000 + Certificate
☐ **Runner-up:** ₹8,000 + Certificate
⚲ **All participants receive certificates**.

Quick CAD Clash

Event Description

Quick CATIA is a competitive CAD (Computer-Aided Design) event aimed at testing participants' proficiency in Dassault Systèmes' CATIA software. The event consists of three technical rounds where participants will demonstrate their modeling, problem-solving, and assembly skills. The competition is designed to challenge students with real-world design scenarios in mechanical engineering.

Event Structure (3 Rounds)

Round 1: Part Modelling

- Participants will be given a 2D drawing with dimensions.
- They must create an accurate 3D model in CATIA within a time limit.
- Judging Criteria: Accuracy, proper constraints, and time efficiency.
- Elimination Round: Only top-performing participants will proceed.

Round 2: Sheet Metal Design

- Error Solution: Participants will be given a faulty CATIA file and must identify & rectify design errors.
- Assembly Design:Selected candidates will be provided with different 3D parts and must assemble them correctly following given constraints.
- Judging Criteria: Precision, correctness of constraints, and assembly feasibility.
- Elimination Round: Further filtering of candidates.

Round 3: Error Solution & Assembly Design

- Finalists will work on a complex sheet metal component using CATIA's Sheet Metal Design module.
- Judging Criteria: Correct application of sheet metal commands, design feasibility, and adherence to given specifications.
- The top performers will be declared winners.
- Eligibility Criteria
- Open to engineering students (Diploma, UG, PG) from Mechanical, Automobile, Production, and related fields.
- Basic knowledge of CATIA is required.
- Participants can register individually.

Additional Details

- Event Mode: Offline (on-campus)
- Software Used: CATIA V5/V6
- Judges: Faculty and Industry Experts
- Participants can carry their own Laptop.

Date: 26/03/2025
Time: 10:00 AM – 6:00 PM
Venue: CAD/CAM LAB , GCOE Jalgaon

Entry: 50/- Per Participants.

Prizes & Certifications

🏆 **Winner:** ₹5,000 + Certificate

☐ **Runner-up:** ₹3,000 + Certificate

🎖 **All participants receive certificates**.

AUTO EXPO 2025

Event Description:

Get ready to witness the ultimate celebration of automotive innovation at **AUTO EXPO 2024**! This one-day event brings together car enthusiasts, industry experts, and leading automobile brands under one roof. From futuristic electric vehicles to classic car showcases and cutting-edge automotive technologies, the Auto Expo promises an adrenaline-filled experience for everyone.

Event Highlights:

- **Automobile Showcase:** Latest cars, bikes, EVs, and concept vehicles.
- **Live Demo Drives:** Experience the thrill of top models and eco-friendly rides.
- **Discussion With Technical Executives:** Get all info about the vehicle.
- **Entertainments:** Individual riders will showcase their driving skills.
- **Contests & Awards:** Quiz Contests.

Who Can Attend?

- Automobile enthusiasts
- Engineering students & professionals
- Local dealers & industry experts
- General public with a passion for cars and technology

Entry: 3000/- for Showroom's

200/- For Individual's

Date: 26/03/2025
Time: 09:30 AM – 6:00 PM
Venue: Play Ground, GCOE Jalgaon

Contact:-

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