



ROBO DRIVE

EVENT BROCHURE





DESCRIPTION



Robo Drive is a high-speed robotics challenge where teams design and control a robot car to race through a predefined track in the shortest possible time. Combining precision driving, speed control, and smart handling, participants must navigate sharp turns, obstacles, and checkpoints while avoiding penalties. The event tests practical skills in robot design, motor control, Arduino basics, and real-time decision-making, pushing teams to balance speed with accuracy under pressure.



EVENT FLOW



Part A: Half Track Trial

Teams will compete individually on a half track with one attempt. The recorded time including penalties will determine qualification for the next part.

Part B: Full Track Trial

Selected teams will compete on the complete track consisting of turns, curves, narrow paths, speed breakers and checkpoints. Final ranking will be based on total time including penalties and the team with the lowest time will be declared the winner



CAR SPECIFICATIONS



Maximum Car Dimensions: 22.5 cm × 15 cm

Maximum Wheel Diameter: 7 cm

Maximum Wheel Width: 3 cm

Motor Power: Maximum 9V

Maximum Number of Wheels: 4

Control Method: Bluetooth controlled only

Sensors: No external sensors allowed

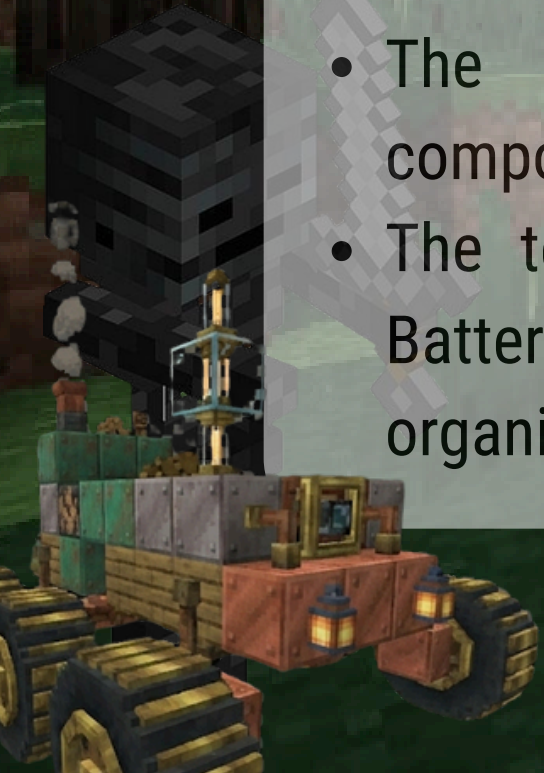




RULEBOOK



- The dimensions of the car must be in the specified limit, failure to do so will result in elimination.
- Teams will consist of 2-4 members.
- If the total time exceeds 4 minutes in Part A and 12 minutes (including penalty) in Part B, the team will be eliminated from the contest.
- The participants will be solely responsible for their components.
- The teams must keep their batteries charged beforehand. Batteries will not be changed once the event begins and event organizers are not responsible to arrange it.





CONTACT US



CO-ORDINATORS

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HOW TO REACH US?

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PRADESH- 177209

AIR

NEAREST AIRPORT:
CHANDIGARH(IXC)

RAIL

NEAREST RAILWAY STATION :
UNA(UHL) RAILWAY STATION

ROAD

10 KMS FROM ISBT UNA
350 KMS FROM DELHI