



Learn Beyond

**KPR Institute of
Engineering and
Technology**

(Autonomous, Affiliated to Anna University)



IEEE
Robotics &
Automation
Society
KPRIET SBC



Connecting the Mobile World
KPRIET SBC

MI QUINIX

Mechatronics Student Association

ROBO RACE



Basic Guideline:

- Each team must consist of 2-3 members.

Rules and Regulations:

- The bot must fit within the following maximum dimensions of 30 Cm X 30cm X15 Cm (L X B X H).
- The Weight of the Bot should be 5 kg ($\pm 10\%$ tolerance), including batteries, but excluding the remote control.
- The RC car may be operated either through a wired or a wireless connection.
- The electric voltage anywhere in the machine should not be more than "12V" DC at any point of time.
- Machines made from LEGO parts, or any ready-made kit will be disqualified.
- The bot must not cause any damage to the arena. If it does, it will be disqualified.
- RC Cars must start behind the starting line.
- Each team will get only one attempt.
- Touching the bot will add +5 seconds penalty per touch.
- If the RC Car goes off the track, it can be placed back at the last checkpoint.
- Skipping part of the track (intentional or unintentional) will add +15 seconds penalty.
- Only the bot handler should touch the robot during track race.

Track Specifications

- The track may consist of straight paths, curves, obstacles, ramps, and speed breakers.
- Certain zones may include rough surfaces, zig-zag turns, or bridges.
- The exact track will be disclosed on event day.

Time Allocation:

- Each team will have a maximum of 7 minutes to complete the track, depending on its size.
- One trial run of up to 2 minutes will also be provided.

Event Protocol:

- Teams should report at the venue/hall within 10 minutes after the coordinator's announcement.
- No delays are allowed. Any change in timing must be informed to the coordinator in advance.
- Failure to report on time or absence without prior notification will lead to disqualification.

Evaluation and Jury Decisions:

- Fastest RC Car completing the track with minimum penalties wins.
- The jury's decision will be final and binding.
- Any doubts or concerns regarding decisions should be directed only to the event officials.
- Non-compliance with rules or instructions from officials will result in disqualification.