

## “Tech Bot Challenge: Where innovation meets competition”

"Welcome to the exhilarating world of remote-control robotic events! Prepare to witness cutting-edge technology and masterful engineering as competitors showcase their prowess in commanding their mechanical marvels from afar. In these thrilling contests, participants demonstrate their skill, creativity, and innovation as they navigate their remote-controlled robots through a series of challenges, races, and competitions.

### DESCRIPTION:

"An RC bot, short for remote control robot, is a mechanical device operated from a distance using a remote-control device. These bots can range from small hobbyist creations to advanced machines used in industrial or military settings. Typically equipped with motors, sensors, and communication modules, RC bots are designed to perform various tasks, such as exploration, surveillance, entertainment, or competition.

### RULES:

- Every bot needs to meet the required specifications provided
- Team sizes up to 3 is allowed. Students from other colleges can form a team.
- Team should bring all the required materials like batteries. Nothing will be provided by organizers.
- Participants shall not be allowed to be a part of more than one team.
- Choose a name for your machine and mention it clearly on the machine (optional).
- Participants should not have any objection to pre-defined rules.
- Change in any rules will be highlighted.
  - Participants must exhibit good sportsmanship throughout the event. Cheating, intentional interference with opponents' robots, or any other unsportsmanlike conduct will not be tolerated.
  - Ready-made bots are strictly not allowed.
  - Participants must familiarize themselves with the format and rules of each stage.
  - Scoring criteria will be provided by the organizers for each event. This may include factors such as completion time, accuracy, performance in specific tasks, or damage inflicted on opponents in combat events.
  - Participants are not allowed to modify their robots during the competition.
  - In case of any tie, tied participants may face off in a head-to-head match or series of matches to determine the ultimate winner.
  - Only the team playing bot is allowed into the track area (closed track) and closed for others as the track is not open to spectate.
  - Only 2 of the team members are allowed into the track area.
  - Once the bot is allowed into the track, no testing should be done.
  - **ENTRY FEE:** Rs.200/- per event
  - Rs.500/- (Combo)All 3 events

**NOTE:** Robot will be provided by the organizers if the participant does not bring his robot, an additional fee of Rs.100/-

**GAME RULES:**

• **Warm-up lap:**

- o Need to randomly run on the track
- o All the bot requirements to be met.

• **Race laps:**

- o Need to run once through the circuit. The least time to complete lap will be the WINNER.
- o If the bot stops or gets stuck, can get to the previous checkpoint and start again.

In case of bot touching the walls of the track, penalty of 3secs will be imposed each time.

- o One of the team members is allowed to step into the arena and get the bot to the previous checkpoint.

In case of any failure or trouble arises, player will be given 2 chances of 2min each to work the bot.

**BOT SPECIFICATIONS:**

- Wired or RC controlled bot
- o If RC used, then set to two to three different radio frequencies.
- Track dimensions 35cm. No height restrictions.
- The power supply for the bot should not exceed 12V
- AC power supply will be provided for charging your batteries (in the breaks only).

"In conclusion, with clear bot specifications in place, participants can compete fairly and showcase their innovation in robotic events. Wishing all competitors the best of luck as they demonstrate their skills and push the boundaries of technology."