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ROBOTICS

Join the robolution



What is robotics?

"**Robotics**" has been a star attraction of IdEEEas for a long time, with people from all over India coming in with their creations for an event where nothing is impossible. The robotics event is divided into three sub-events. ROBO-RACE (Manual Bot Competition), LINE FOLLOWING ROBOT (Autonomous Bot Competition), and Fast n Furious (crossroads). The exhilarating atmosphere is enough to send a shiver down one's spine! Teamwork makes the STEAM dream work.

General rules:

- Each team can have a maximum of 4 participants except Fast n Furious(solo).
- All students with a valid identity card from their respective colleges are eligible to participate in the event. A team may consist of students from different colleges.
- The organizers reserve the right to change the rules as they deem fit.
- The judge's decision will be final and binding to all.
- Bots should not be disassembled until the results are declared.
- The teams will have to take care of their stock of batteries.

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Flow of the event:

- A maximum of four participants per team is allowed.
- The event will contain 3 sub-events in which the participants have to bring their bots and run them on the given path.
- The components that are required must be bought by the participants.
- In the second event (Fast n Furious), participants have to run the bots given by the organizers and solve the maze.
- In the last event they have to run the bots on the provided path.

SUB EVENT-1: LFR (Line Following Robot)

- In this event, the participants have to bring their bots and run them on a provided lane.
- Robots should be wireless.
- Robots should be prepared prior in hand, no time will be given during the event.
- The robot path must NOT be saved in robots.
- Required elements must be bought by the participants only.
- Judge's decisions will be final.

SUB EVENT-1: LFR (Line Following Robot) contd.

Arena Description:

- The base of the arena is made up of a white-colored flex sheet on which black colored line is printed or can be pasted (For both qualifying and (final round)).
- The thickness of the line will be 3cm (0.5cm tolerance).
- The course line may have acute, obtuse, right angles and curves.
- The course line may also have discontinuities at various points.

SUB EVENT-1: LFR (Line Following Robot) contd.

Bot specifications:

- Robots must be autonomous.
- There is no restriction on the motors' size, weight, and RPM of motors. The designer's responsibility is to design a robot that can finish the race in the least time.
- No lego kits or vega kits are allowed. If any robot is found skeptical, it will be immediately disqualified.
- The voltage should not exceed 12V between any two points in the circuit.

SUB EVENT-2: Fast N Furious

- It is a **SOLO** Event.
- In this round, the organizers will provide the robots.
- Participants have to solve the maze(puzzle).
- Bots should not be disassembled.
- Judge's decisions will be final.

SUB EVENT-3: Roborace

- In this event, the participants have to bring their bots and run them on a provided lane.
- Robots can be wired or wireless.
- Robots should be prepared prior in hand, no time will be given during the event.
- The robot path must NOT be saved in robots.
- Required elements must be bought by the participants only.
- Judge's decisions will be final.

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Judging Criteria:

Innovation | Credibility | Sustainability | Feasibility | Relevance

Eligibility:

Open to all the branches.

Maximum team size: 4

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FAQs:

One can participate in more than one sub-event?

Yes, one can participate in all the sub-event.

Can two participants use the same robot for Line follower?

No, each team should build their robot.

Can we bring different bots for 2 events?

Yes

Can I get any components if required?

No

What is the minimum team size?

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FAQs:

Can We Use our bot for Fast n Furious?

No, an individual should drive the given bot.

Can We use the same robot for LFR and roborace?

Yes.

Is there any constraint on the speed of the robot?

No, it can be of any speed

Whether the robot should be within a particular weight?

No, it may be of any weight.

Contact coordinators for more information.

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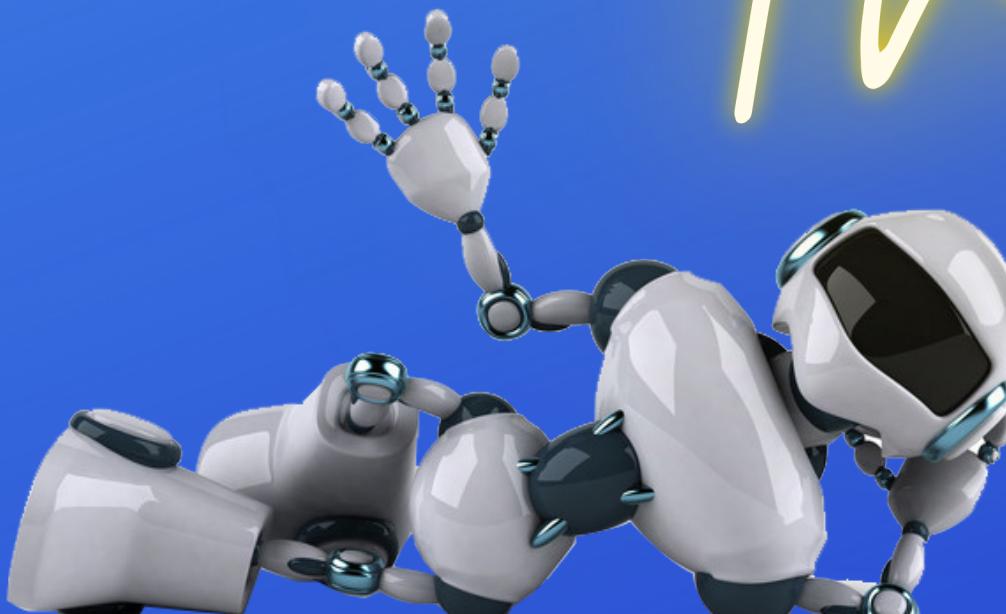
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Thank You



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