

AVALON

TECHFEST

2026

Rule Book For ROBO RACE

PRISE POOL :12,000/-*



DATE
10 FEBRUARY 2026

Register at
<https://avalontechfest.in/register>

REGISTRATION
Rs 150 (individual)

IN THIS COMPETITION, THE CONTESTANT OR TEAM OF CONTESTANTS DESIGNS A WIRED OR WIRELESS RACE ROBOT WITHIN THE SPECIFIED DIMENSIONS THAT CAN OPERATE MANUALLY. THE ROBOT THAT COMPLETES ALL THE HURDLES IN THE SHORTEST TIME POSSIBLE WILL BE THE WINNER.

● ROBOT SPECIFICATIONS:

- THE MAXIMUM DIMENSION OF THE ROBOT CAN BE 30 CM X 30CM X 25 CM.(L X W X H)
- THE ROBOT MAY BE WIRED OR WIRELESS.
- THE LENGTH OF THE WIRE (FOR WIRED BOTS) SHOULD BE LONG ENOUGH TO COVER THE WHOLE TRACK AND WIRE SHOULD REMAIN SLACK DURING THE COMPLETE RUN. MINIMUM 2.5 METER WIRE IS REQUIRED(IF ROBOT IS WIRED).
- MAXIMUM WEIGHT MUST NOT EXCEED 3 KG.
- THE MACHINE MUST BE POWERED ELECTRICALLY ONLY.
- USE OF IC ENGINES IS NOT ALLOWED.
- BATTERIES MUST BE SEALED.
- THE ELECTRIC VOLTAGE ANYWHERE IN THE MACHINE SHOULD NOT BE MORE THAN 12 V DC AT ANY POINT OF TIME
- ONCE THE BOT ENTERS THE ARENA, ITS DESIGN CANNOT BE MODIFIED; HOWEVER, REPLACEMENT WITH IDENTICAL COMPONENTS IS PERMITTED IF NECESSARY.



● GAME RULES:

- THE COMPETITION IS BASED ON A TIME TRIAL SYSTEM. THE TOP 6 TEAMS FROM THE QUALIFYING ROUND MAKE IT TO THE FINAL ROUND BASED ON TIME TRIALS.
- ONE ROBOT CAN BE USED FOR TWO REGISTRATIONS WITH DIFFERENT DRIVERS.
- IF ANY OF THE ROBOTS STARTS BEFORE THE START-UP CALL, THE COUNTER WILL BE RESTARTED AND THE MACHINES WILL GET A SECOND CHANCE. IF REPEATED THEN THE TEAM WILL BE DISQUALIFIED.
- THE ROBOT CROSSES A CHECKPOINT AND MOVES OFF TRACK, THEN THE ROBOT WOULD BE PLACED BACK ON THE PREVIOUS CHECKPOINT CROSSED WITH A PENALTY.
- YOUR ROBOT MUST BE READY WHEN THE CALL IS MADE FOR YOUR TEAM.
- TEAM MEMBERS WILL BE ALLOWED TO TOUCH OR RESET THEIR ROBOT'S POSITION DURING THE RUN. HOWEVER, THIS WILL LEAD TO A TIME PENALTY AND THE TIMER WILL NOT STOP DURING THIS COURSE OF ACTION.
- THERE IS A PROVISION OF A 1M TECHNICAL TIMEOUT IN CASE OF SOME DIFFICULTIES.
- THE ROBOT WILL BE JUDGED ON THE BASIS OF (IN PRIORITY):-
 - 1.TIME TO COMPLETE THE TRACK.
 - 2.NUMBER OF CHECKPOINTS CLEARED.
- MACHINE MUST NOT CONTAIN ANY PNEUMATIC & HYDRAULIC SYSTEMS AND IC ENGINES.
- NO TEAM WILL GET A SECOND CHANCE AFTER COMPLETING THE TRACK WITH A POOR SCORE.
- WIRE SNATCH CONTROL IS STRICTLY PROHIBITED AND WILL BE TREATED AS A FOUL; UPON RECEIVING TWO FOUL WARNINGS FOR THIS VIOLATION, THE BOT WILL BE DISQUALIFIED.



● GENERAL RULES:

- THE TEAM SHOULD BE BETWEEN 2 TO 5 MEMBERS. STUDENTS FROM DIFFERENT INSTITUTES CAN FORM A TEAM.
- UNETHICAL BEHAVIOR COULD LEAD TO DISQUALIFICATION. EVENT COORDINATORS HAVE ALL THE RIGHTS TO TAKE FINAL DECISIONS FOR ANY MATTER DURING THE EVENT.
- THE DECISION OF THE JUDGES WILL BE FINAL AND ABIDING. ARGUMENT WITH JUDGES IN ANY FORM WILL LEAD TO THE DISQUALIFICATION OF THE TEAM.
- ROBOT SHOULD BE AS PER THE GIVEN SPECIFICATIONS. THE ROBOT SHOULD NOT DAMAGE THE ARENA.
- THE ROBOT MUST NOT LEAVE BEHIND ANY OF ITS PARTS DURING THE RUN; ELSE IT WILL RESULT IN DISQUALIFICATION.
- A SINGLE DRIVER IS NOT PERMITTED TO OPERATE MORE THAN ONE BOT DURING THE EVENT.
- RULES MIGHT CHANGE ACCORDING TO TRACK OR ANY OTHER FACTORS, ALL TEAMS WILL BE INFORMED PRIOR THE MATCH IF ANY CHANGES ARE TO BE MADE IN RULES.

● FOR FURTHER DETAILS OR INQUIRY CONTACT

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