

BOAT DRAG RACING

"Drag yourself to this epic race"

INTRODUCTION:

As the name suggests, drag boat racing is a form of drag racing which takes place on water rather than land. As with land based drag racing, pair of competitors race their vehicles for the lowest elapsed time (low ET) over a straight race course of a defined length. Unlike drag racing on land, which begins from a standing start, drag boat racing begins from a short rolling start to a point that cannot be passed until the green "start" light illuminates. There are numerous categories of professional and sportsmen classes based on various engine configuration, fuel type, hull design and propulsion types



PROBLEM STATEMENT:

Make a motorboat, by the rules, for 5 meter straight water channel drag race. Selected team will be provided with required components (electric motor, propeller, battery) for making their own boats however, teams will have to design and fabricate their boat by themselves with material like thermocol, cardboard, wood, plastic bottles, Styrofoam etc.

RULES & REGULATIONS:

SIZE RESTRICTIONS:

- The length of the entire boat must be less than 20 centimetres from tip to tail.
- The width of the boat must be less than 8 centimetres at all points at the water surface-level.

ARENA:

5m (length) by 12cm (width) open water channel (race track)

EVENT DETAILS:

The event will comprise of 3 rounds.

ROUND 1:

There will be a Quiz based on general information about Boats and some aptitude questions.
(Team which clear the cut off will be selected for the next round.)

ROUND 2:

- Each selected team will be provided with required components (electric motor, propeller, battery) for making their own boats however, teams will have to design and fabricate their boat by themselves with material like thermocol, cardboard, wood, plastic bottles, Styrofoam etc.
- The boat design may be based upon a fan-boat, speedboat, paddle wheel.
- Selected teams will compete for minimum lap time, each teams can have at max two attempts.

ROUND 3:

Top 6 teams will compete against each other for the drag race.

JUDGING CRITERIA:

- A boat built according to all of the restrictions earns 35 points.
- As a boat propels itself down the 5 meter track at one time, it earns +3 points per meter completed.
- The boat must meet all of the rules and propel by itself 5 meters at one time to qualify for competition.
- In case of any discrepancy the decision taken by the jury will be treated as final decision.

TEAM SIZE:

A Maximum of 2 students are allowed per team.

ELIGIBILITY CRITERIA:

- All students with a valid Registration Card of DEXTRA 2014 along with their respective educational institutes' ID card are eligible to participate.
- Non-JUET participants must possess an Accommodation Confirmation Letter (ACL) issued by the organizing body at the time of registration. **Registration Card will not be issued without ACL.**

EVENT MANAGERS:

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