

HOPE 25 Build a resistance

Build and Solve—Master the Circuit!

Objective:

Participants will use color-coded resistors to assemble circuits that achieve specific resistance values as accurately as possible within a given time.

Event Details:

Individual event

Participants must be students of a recognized institution.

Prizes:

1st Place: ₹750 | 2nd Place: ₹500 | 3rd Place: ₹250

Rules and Guidelines:

Eligibility:

- Participants must **register online** at hope.gptcperinthalmanna.in by **March 8, 2025**.

Competition Format

- Participants will receive a target resistance value at the start of each round.
- Using provided colour-coded resistors, participants must construct a circuit to match the resistance as closely as possible.
- Fastest time to complete the target resistance value correctly will win the competition

Resistor Colour Code Knowledge

Participants should be familiar with:

- The four-band resistor colour codes.
- Series and parallel resistor calculations.

Building Rules

- Participants may use only the resistors provided by organizers.
- No external measuring devices are allowed.
- Resistors can be connected in series or parallel to achieve the target resistance.
- Once a circuit is submitted, no further modifications are allowed.

Scoring Criteria

- Accuracy: Closer resistance values score higher.
- Time Efficiency: Faster Participants receive bonus points.

Event Day Requirements

- Participants must arrive 15 minutes before the competition starts.
- A brief introduction to resistor colour coding will be provided before the competition.

Penalties & Disqualification

- Exceeding time limits leads to deduction in scores.
- Using external measuring devices leads to disqualification.
- Unsportsmanlike conduct results in Participant disqualification.

Contact:

For clarifications, reach out to the following before the event.

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