**BUILD A RESISTANCE COMPETITION**

**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**

* **Type:** Individual
* **Eligibility:** Participants must be students of a recognized institution.

**Prizes:**

1st Place: ₹750

2nd Place: ₹500

3rd Place: ₹250

**Competition Rules & Guidelines**

**Registration**

* Participant must register online at https://hope.gptcperinthalmanna.in/ by March 8, 2025.
* Provide college name and Participant details during registration.

**Competition Format**

* Participant will receive a **target resistance value** at the start of each round.
* Using provided **colour-coded resistors**, Participant 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**

* Participant 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 Participant receive bonus points.

**Event Day Requirements**

* Participant 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 Queries**

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