

BOOLEAN BATTLE

TIMINGS AND SLOTS:

Timing: 10 am - 1:30 pm

Slots: 3

DESCRIPTION:

Boolean Battle is a group event with puzzles, debugging, and designing tasks on digital circuits like logic gates, number systems, and combinational/sequential circuits. Teams will tackle challenges to enhance their circuit analysis and design skills. The event fosters technical growth in a competitive setting.

RULES:

- A team can have 2 to 3 participants.
- Discussing with other teams or using mobile phones will lead to disqualification.

EVENT FLOW:

Round 1: This involves solving number system conversions, arranging logic gates for a given output, simplifying basic Boolean expressions, and minimizing functions using Karnaugh maps (K-maps). 10 questions from basic digital circuits (number systems, logic gates, etc.) will be given as preliminary questions.

Round 2: This round initially consists of 5 questions related to the analysis and design of combinational and sequential circuits, including finding the missed gates.

If teams want additional points, they can answer extra questions related to electronics and communication topics, provided by the event committee.

Time: 40 minutes (including additional questions if chosen).

JUDGING CRITERIA:

Judging will be based on the Scores scored and time taken to solve by the participating team and the winners will be awarded according to it.