ELECTROVISION Quest

Rule Book

ElectroVision Quest – Innovision 2025

Student co-ordinators:

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Event Overview :

ElectroVision Quest – Innovision 2025 is a series of exciting events focused on electronics and microcontrollers, hosted by the Electronics and Telecommunication Department of RSCOE. Spanning quizzes, circuit debugging, digital simulations, DIY projects, and culminating in the ultimate project showcase "Techathon," this event encourages innovation, creativity, and technical excellence. Participants can register for all events or choose lateral entry for individual competitions.

What is **ElectroVision**?

ElectroVision is a platform for B.Tech students passionate about electronics, fostering innovation, problem-solving, and collaboration through a blend of theoretical knowledge and hands-on activities.

Sub-Events

1. **Watts the Answer? Overview:** A technical quiz competition hosted on Mentimeter.
Focus: Promotes quick thinking, teamwork, and interdisciplinary engineering knowledge.
Pre-Requisite: A device with an active internet connection.
Rules:

- Team Name: Teams must choose a unique name reflecting their personality or technical background.
- Team Specifications:
  - Teams consist of 1–4 members. For teams of four, only two members participate in the quiz.
  - Individual participants will play alone.

- Eligibility:
  - Open to students enrolled in recognized institutions.
  - Teams can have members from different branches or colleges.
  - Each participant must present a valid college ID card.
- Quiz Details:
  - 30 multiple-choice questions (MCQs).
  - 1 minute per question.
  - Topics: Analog Circuits, Control Systems, Digital Electronics, Communication Systems, Networks, Signal & Systems, Embedded Systems, and interdisciplinary topics.
  - Scoring:
    - Correct Answer: +10 points.
    - Incorrect Answer: No negative marking.
- Live Leaderboard: Displays scores and rankings after each question.
- Prizes:
  - Winner: Rs. 1,000.
  - E-certificates for all participants.
- Entry Fee: Rs. 50.

For More Info:click here

2. **Fault Hunt Overview:** Troubleshoot faults in pre-designed circuits using Proteus Design Suite.

Purpose: Enhance circuit analysis, debugging, and teamwork skills.

Participation:

- Team size: 1–4 members.
- Individual participants compete solo.

Event Structure:

- Basic Troubleshooting: Identify single faults (15 min).
- Intermediate Challenge: Diagnose multiple faults (30 min).
- Advanced Fault Hunt: Resolve complex faults (45 min).

Scoring:

- Correct fault identification: 10 points.
- Explanation of fault: 5 points.
- Successful rectification: 15 points.
- Fully functional circuit simulation: 20 points.

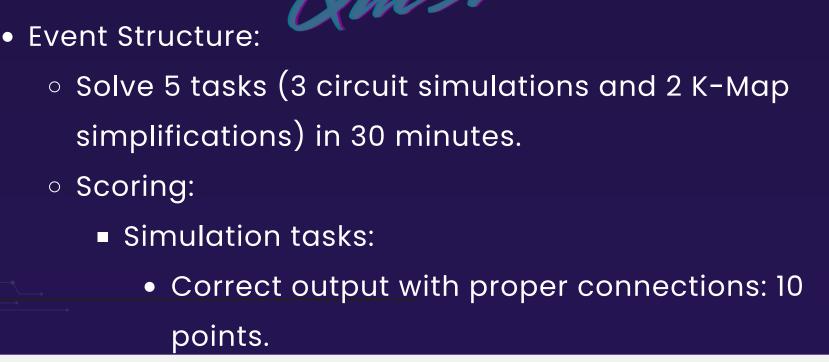Technical Requirements: Proteus Design Suite.

Prizes:

- Winner: Rs. 1,000.
- E-certificates for all participants.

Entry Fee: Rs. 50.

For More Info:click here.

3. **Circuitrix Overview:** Digital circuit simulation and logic simplification using DeLdsim.

Rules:

- Team Size: Maximum of 2 members.
- Event Structure:
  - Solve 5 tasks (3 circuit simulations and 2 K-Map simplifications) in 30 minutes.
  - Scoring:
    - Simulation tasks:
      - Correct output with proper connections: 10 points.

- - - Correct connections without output: 5 points.
    - K-Map tasks:
      - Correct answer: 10 points.
- Equipment: PCs with DeLdsim software installed will be provided.

Prizes:

- Winner: Rs. 1,000.
- E-certificates for all participants.

Entry Fee: Rs. 50.

For More Info:click here

4. **Do It Yourself (DIY) Overview:** Program a microcontroller and design a hardware circuit based on a given problem statement.

Participation:

- Team size: 1–4 members.

Event Structure:

- Coding Phase: 15 minutes to complete error-free code.
- Hardware Phase: 15 minutes to connect components and achieve desired output.

Scoring:

- Compilation with zero errors: 15 points.
- Correct hardware connections with output: 15 points.

Technical Requirements:

- Software: Arduino IDE.
- Microcontrollers: Arduino and ESP32 (provided).
- Components: Provided by the college.

Prizes:

- Winner: Rs. 1,000.

- E-certificates for all participants.

Entry Fee: Rs. 50.

For More Info:click here

5. **Techathon Overview:** Showcase innovative hardware projects addressing sustainability and societal needs.

Participation Guidelines:

- Team size: Maximum 4 members.
- Open to teams from any recognized engineering college.
- Teams may consist of members from different colleges.

Domains:

- Sustainability, Automation, Agriculture, AI/ML, IoT, etc.

Judging Criteria:

- Innovation and Creativity.
- Technical Feasibility.
- Sustainability.
- Presentation Skills.

Prizes:

- Winner: Rs. 1,000.
- E-certificates for all participants.

Entry Fee: Rs. 50.

For More Info:click here

Safety Rules

1. Handle all equipment with care.
2. Malpractice or damage to college property will result in penalties.
3. Follow instructions from coordinators and judges.

Prize Pool

- Total Prize Pool: Rs. 30,000.
- Overall Winner and Runner-ups (Cumulative Scores):
  - 1st Place: Rs. 10,000.
  - 2nd Place: Rs. 6,000.
  - 3rd Place: Rs. 4,000.

Event Coordinators

- Watts the Answer?: Prithviraj Sarowar
- Fault Hunt: Sayali Gujale – 8010267778
- Techathon: Hrushikesh Borgave – 8317331251
- Circuitrix: Deven Pujari – 8767796263
- DIY: Avdhoot Nimbalkar – 9321985850

Prepare, innovate, and compete for glory at ElectroVision Quest – Innovision 2025!

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