



## **Department of Electronics and Communication Engineering**

### **Event Report: “ELECTRO QUEST in TECHNO-UTSAV 2025”**

#### **Event Details:**

- **Event Name:** ELECTRO QUEST
- **Date:** 15<sup>th</sup> Oct, 2025
- **Time:** 01:00 PM to 02:00 PM
- **Venue:** 5201 Lab, Block 5

#### **Participants:**

- **Number of Participants:** 20+
- **Target Audience:** Students from various departments interested in developing problem-solving, critical thinking, and teamwork skills.
- **Participant Demographics:** Mostly undergraduate students, with diverse backgrounds and skill levels. The event witnessed enthusiastic participation and competitive spirit throughout all rounds.

#### **Event Overview:**

As part of the annual technical fest “**Techno Utsav 2025**,” the **Department of Electronics and Communication Engineering** organized an interactive and intellectually challenging event titled “**Electro Quest**.”

The event aimed to test students’ understanding of core electronics concepts, circuit design, and problem-solving skills through a series of technical rounds. It encouraged teamwork, analytical thinking, and application of theoretical knowledge in practical scenarios.

Electro Quest attracted enthusiastic participation from students across multiple branches, making it one of the most dynamic and knowledge-driven events of Techno Utsav.

## **Objectives:**

Assess students' technical knowledge in electronics and communication. Promote analytical reasoning and circuit-building skills. Encourage collaborative problem-solving and teamwork. Provide a practical learning platform beyond the classroom environment and stimulate interest in core ECE subjects through fun, competitive activities.

## **Event Structure:**

The event was designed in three progressive rounds, each testing different aspects of electronic knowledge and skills.

### **Round 1: Techno Quiz (Preliminary Round)**

- Format: Objective-type quiz (MCQs) covering topics such as Basic Electronics, Digital Logic, Communication Systems, and Microprocessors.
- Duration: 20 minutes.
- Each team consisted of two members.
- The top 10 teams with the highest scores qualified for the next round.

### **Round 2: Circuit Crafter (Practical Round)**

- Participants were provided with electronic components and breadboards
- Task: Design and implement a working circuit (e.g., amplifier, LED flasher, or logic gate system) within a fixed time.
- Evaluation Criteria: Circuit functionality, innovation, and clarity of explanation.
- The top 5 teams advanced to the final round.

### **Round 3: Rapid Electronics (Final Round)**

- Format: A technical challenge round where teams solved real-world circuit problems and debugged faulty setups.
- Participants also faced rapid-fire questions related to circuit theory, sensors, and embedded systems.
- The round tested speed, accuracy, and conceptual clarity under pressure.

## **Problems Faced and Solutions Implemented:**

### **Problem 1: Component Shortage**

**Issue:** Due to high participation, some basic components (resistors and ICs) ran short during the circuit-building round.

**Solution:** Extra components were quickly arranged from the electronics lab stock by the faculty team to ensure all participants could continue without delay.

## **Problem 2: Time Overruns in Round 2**

**Issue:** Some teams exceeded the time limit while assembling their circuits.

**Solution:** A digital timer and reminder system were introduced for subsequent rounds to ensure adherence to the schedule.

## **Problem 3: Power Supply Fluctuations**

**Issue:** Minor voltage drops affected circuit testing during the practical round.

**Solution:** Backup regulated power supplies were provided, and all systems were rechecked for stable output.

## **Feedback and Reception:**

### **Participants' Feedback:**

Appreciated the hands-on nature of the event and the opportunity to apply theoretical concepts practically.

- Praised the well-structured rounds and the variety of challenges. Suggested including Arduino or microcontroller-based tasks in future editions.

### **Faculty Feedback:**

- Applauded the students' enthusiasm and problem-solving approach. Highlighted that the event successfully bridged theory and application in electronics.

### **Audience Reception:**

- The audience enjoyed watching the final round's live debugging challenge. The event drew attention from students of non-ECE departments as well, creating an interdisciplinary atmosphere.

Overall, the event received excellent feedback for its organization, content, and learning impact.

## **Organizers:**

**Faculty Coordinators: Ms. Shivani Kaur**

**Student Coordinators: Nishtha Singh**

**Volunteer: Kratika Gupta and Yogita Kakkar**

## Outcome:

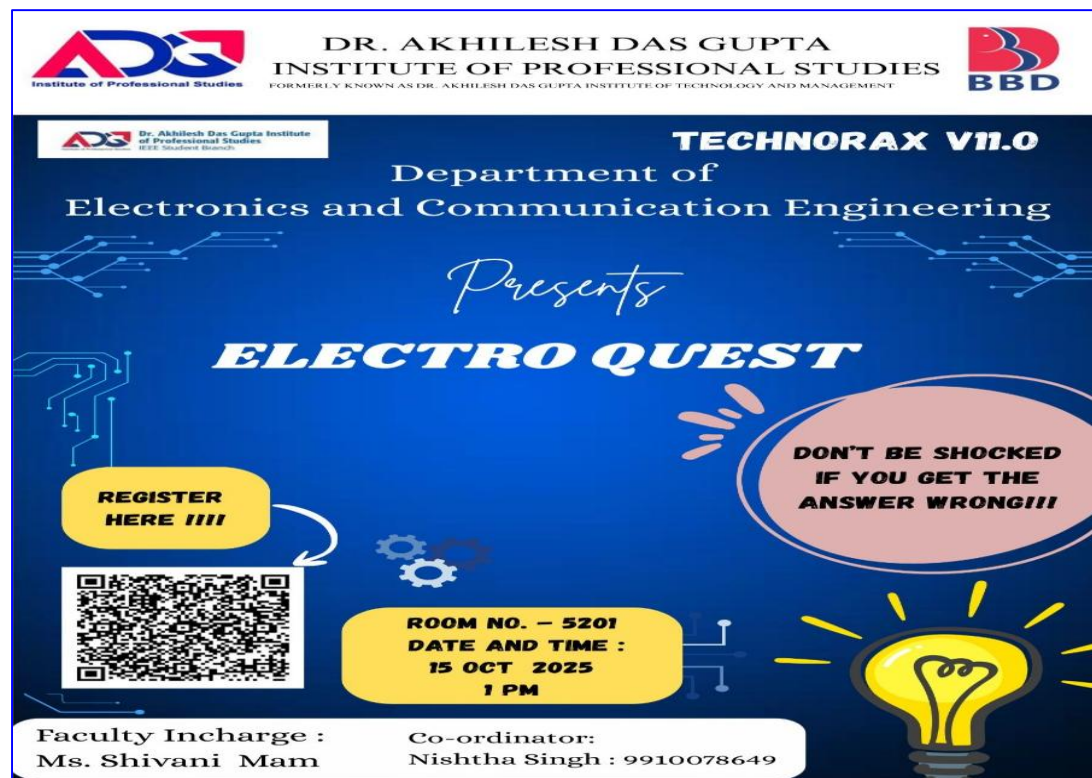
Electro Quest proved to be both educational and engaging, successfully promoting curiosity and innovation in the field of electronics. It allowed students to apply classroom concepts in real-life problem-solving scenarios, enhancing their analytical and technical abilities. The event also strengthened the teamwork and coordination skills of participants, making it an invaluable learning experience for all involved.

## Conclusion:

The Electro Quest event organized by the Department of Electronics and Communication Engineering under Techno Utsav 2025 was a grand success. It not only provided a competitive and interactive platform for students to showcase their technical skills but also inspired them to delve deeper into the fascinating world of electronics.

The event's blend of theory, practice, and innovation made it a memorable highlight of Techno Utsav 2025.

## Glimpses of the event



The poster is for the 'Electro Quest' event, part of Techno Utsav VII.0. It features a dark blue background with white and yellow text and graphics. At the top, logos for ADG (Dr. Akhilesh Das Gupta Institute of Professional Studies) and BBD are displayed. The main title 'ELECTRO QUEST' is in large, bold, white letters, with 'Presents' written in a cursive font above it. A yellow call-to-action box says 'REGISTER HERE !!!!' with an arrow pointing to a QR code. Another yellow box provides the event details: 'ROOM NO. - 5201', 'DATE AND TIME : 15 OCT 2025', and '1 PM'. A pink speech bubble contains the text 'DON'T BE SHOCKED IF YOU GET THE ANSWER WRONG!!!'. A glowing lightbulb is at the bottom right. The faculty incharge and co-ordinator information is at the bottom.

**ADG** Institute of Professional Studies  
**DR. AKHILESH DAS GUPTA**  
INSTITUTE OF PROFESSIONAL STUDIES  
FORMERLY KNOWN AS DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
**BBD**

**ADG** Dr. Akhilesh Das Gupta Institute of Professional Studies  
IES Students Branch

**TECHNORAX VII.0**  
Department of  
Electronics and Communication Engineering  
*Presents*  
**ELECTRO QUEST**

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**DON'T BE SHOCKED**  
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**ANSWER WRONG!!!**

Faculty Incharge :  
Ms. Shivani Mam

Co-ordinator:  
Nishtha Singh : 9910078649

