ACHARYA

ACHARYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF PHYSICS

ACTIVITY ON
PHYSICS IN ACTION:
SMART CIRCUIT CHALLENGE

21st May, 2026 | 2:30 PM - 3:30 PM

Venue: Acharya Campus

About the Program

The Smart Circuit Challenge is an immersive, high-energy competition designed to transform theoretical physics into tangible innovation. By moving beyond the textbook, this event challenges students to harness the fundamental principles of electromagnetism and circuitry to solve real-world problems. Participants will navigate the intersection of Electrical and Electronics Engineering (EEE) and Electronics and Communication Engineering (ECE), drafting blueprints for a smarter future. This challenge emphasizes that physics is not just a study of laws, but it is the spark of modern invention.

Objectives of the Program

- To enable students to apply core concepts of voltage, resistance, and current flow toward building reliable, functional electrical architectures.
- To bridge the gap between Physics and Engineering disciplines, encouraging participants to utilize ECE/EEE frameworks in their design process.
- To foster a creative mindset by requiring the design and demonstration of a real-world system, such as smart lighting or automated climate control.

Expected Outcomes of the Program

- Participants will demonstrate the ability to design, wire, and troubleshoot functional circuits that meet specific real-world criteria.
- Through the iterative design process, students will show measurable improvement in collaborative problem-solving and technical communication within a team setting.
- Participants will be motivated to build a portfolio-worthy project and a deeper understanding of how electrical systems can be automated to improve everyday life.

Target Audience: First year EEE and ECE students

Committee Members

ADVISORY COMMITTEE

- Dr. C K Marigowda, Principal, AIT
- Dr. Rajanna K R, Dean- Students Affairs, AIT
- Dr. Mahesh S.S, First Year Coordinator Physics cycle, AIT
- Dr. Satish K, Head, Dept of Chemistry & First Year Coordinator, AIT

CONVENER

- Dr. Kavyashree D, Assoc. Professor and Head, Dept. of Physics, AIT

COORDINATOR

- Manoj S P, Asst. Professor, Dept. of Physics, AIT
- Prof. Nagashree. M. C, Asst. Prof., Dept. of Physics, AIT

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LOCATE US

Event Coordinator

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