

# **Report on Hands-on Workshop on Circuit Implementation**

**Date :** 16 January 2026

**Time :** 2:45 PM – 4:20 PM

**Venue:** Room No. 212, Lab Block, 2nd Floor, BJI

**Organizing Body :** VoltEdge Club

Department of Electronics and Communication Engineering  
Bishop Jerome Institute (BJI)

**Co-ordinator :** Ms. Neethu Mary Raju, Asst.Prof, BJI

## **Activity**

Hands-on Workshop / Practical Skill Development Program

## **Objectives of the Activity**

- To provide practical exposure to basic electronic circuit implementation
- To enhance students' understanding of the 555 Timer IC
- To develop hands-on skills in circuit design and testing
- To bridge the gap between theoretical concepts and practical applications

## **Description**

The Hands-on Workshop on Circuit Implementation was conducted on 16 January 2026 for the students of the Electronics and Communication Engineering department. The session focused on practical learning through real-time circuit assembly and testing.

Students implemented two electronic circuits using the **555 Timer IC**, namely:

- **Dancing Light Circuit**
- **LDR-based Light-Controlled Circuit**

The workshop began with an explanation of the working principle of the 555 IC and its modes of operation. This was followed by a live demonstration of circuit connections. Students then assembled the circuits individually with guidance from the coordinators and successfully tested the outputs.

## **Student Participation**

Students actively participated in the workshop and performed circuit implementation enthusiastically. They showed keen interest in understanding component functionality, troubleshooting errors, and observing circuit behaviour.

## Outcomes of the Activity

After completing the workshop, students were able to:

- Understand the practical working of the 555 Timer IC
- Design and implement basic electronic circuits
- Analyse circuit outputs and identify errors
- Improve hands-on skills and confidence in hardware implementation

## Benefits to Students

- Improved practical knowledge in electronics
- Enhanced problem-solving and debugging skills
- Increased interest in core ECE subjects
- Exposure to real-time circuit applications

## Conclusion

The Hands-on Workshop on Circuit Implementation organized by the VoltEdge Club was successfully conducted and met its intended objectives. The activity contributed effectively to outcome-based learning by enhancing students' technical skills and practical understanding. The enthusiastic participation of students reflected the success of the program.



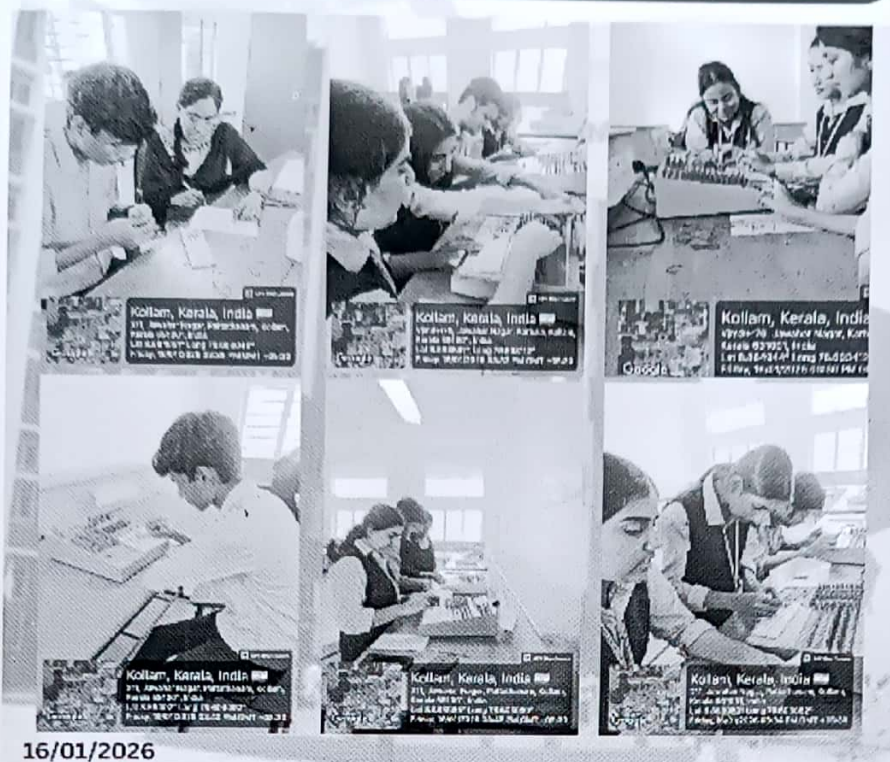


# BISHOP JEROME INSTITUTE

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Department of Electronics & Communication Engineering  
in Association with VoltEdge Club, BJI  
Workshop Highlights,

## HANDS-ON WORKSHOP ON CIRCUIT IMPLEMENTATION



16/01/2026

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