



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**ACADEMIC YEAR 2023-24(ODD SEM)**

**IEEE STUDENT BRANCH STB 16621- JUNE, 2023**

**INTERNAL STAFF TECHNICAL SEMINAR**

**20.10.2023**

**Summary of the seminar:**

Department of Electronics and Communication Engineering in association with IEEE student branch (16621) organized an Internal staff technical Seminar on **18.10.2023**.

The main objective of this internal staff technical seminar is to:

- Provide a platform and to get exposure in the recent trends of Electronics and Communication Engineering.
- Improve the performance of all the Staff members at all levels.
- Identify the persons in the department with the required potential and prepare them for higher positions in future.
- Prevent stagnation of faculty by exposing them to the latest concepts and techniques in their respective areas of specialization.

**Mr.N.Mangaiyarkarasi**, HOD/ECE welcomed the gatherings. **Mrs.U.Jeyamalar**, Assistant Professor/ECE delivered a lecture in the topic of "**Automatic Bottle filling and Capping System Using PLC**".

**Online Journal Paper Referred:**

Dr. Pankaj Prajapati, Sachin Singh, Saurabh Gupta, Shivani Srivastava" Automatic Bottle Filling and Capping System Using PLC," in IRJET journal, vol. 06, 2019.

**Aim and the themes discussed:**

- This seminar to explore the design, implementation, and functionality of a Programmable Logic Controller (PLC)-based automation system used for the precise and efficient filling and capping of bottles in industrial production lines
- The seminar will focus on the technological advancements, operational principles, and practical applications of such systems, as well as their role in improving productivity, reducing human error, and ensuring quality control in the manufacturing process.

**Outcome:**

- Attendees will be equipped with the knowledge and skills to design, implement, or optimize automated bottle filling and capping systems in industrial settings.
- The seminar will have a well-rounded understanding of the technical and practical aspects of PLC-based automation, preparing them to contribute to or lead automation projects in industrial environments.
- Overall the seminar was helpful for the future researchers, who have the interest to work and make advancements in the field to gain insight into the topic.



*Mrs.U.Jeyamalar, AP/ECE delivering the lecture*

A.H. 5/12/23  
Staff in charge

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