



ACA – R-49	Expert Lecture on “IOT Workshop”	Academic Year: 2024-25
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Ref: SPVP/SBPCOE/COMP/2024-25/F12/06 “NAAC Accredited”

Date:06/03/2025

To
The Principal
SBPCOE, Indapur

Subject: Submission of Report – Three-Day IoT Workshop

Respected Sir,

With reference to the above-mentioned subject, the Department AI&DS Engineering organized a **Three-Day Workshop on “Internet of Things (IoT)”** for SE and TE AI&DS Engineering students from **24 th March to 26 th March 2025**. The event received an excellent response from participants and concluded successfully with strong engagement and learning outcomes.

The Expert lecture was successfully conducted and completed following objectives:

Workshop Objectives:

1. To introduce students to the fundamentals and applications of IoT
2. To provide hands-on experience with sensors, microcontrollers, and real-time data processing
3. To encourage project-based learning and innovation among students

Summary of Workshop:

The workshop was conducted over three days and included both theoretical and practical sessions. It was aimed at building a strong foundation in IoT technology, which is essential in today’s era of smart systems and digital transformation.

Day 1:

Introduction to IoT – Concepts, architecture, and real-world applications

Overview of microcontrollers used in IoT (e.g., Arduino, Node MCU)

Setting up development environments

Day 2:

Hands-on with sensors (temperature, humidity, IR, etc.)



Data collection and transmission using Wi-Fi modules

Interfacing sensors with microcontrollers

Day 3:

Real-time data monitoring using IoT dashboards

Mini project development by student groups

Presentation of project outcomes and Q&A session with the resource person

Outcome of the Workshop:

- Students acquired practical skills in IoT hardware and software.
- They gained exposure to real-time data handling and network communication.
- Several innovative mini-projects were developed and demonstrated.
- Positive feedback was received from both students and faculty members.
- Participants requested more advanced sessions in the future.

To make this event successful, Participants from SE/TE Computer have been actively participated and communicated with the speaker for their queries. As the coordinator of this event I would like to thank our Management, Principal and Our Team Members for their support and continuous encouragement to organize this event.

Some snap of the event.

Snaps while during Expert lecture dated on 24/03/2025



Snaps while during Lab session dated on 25/03/2025



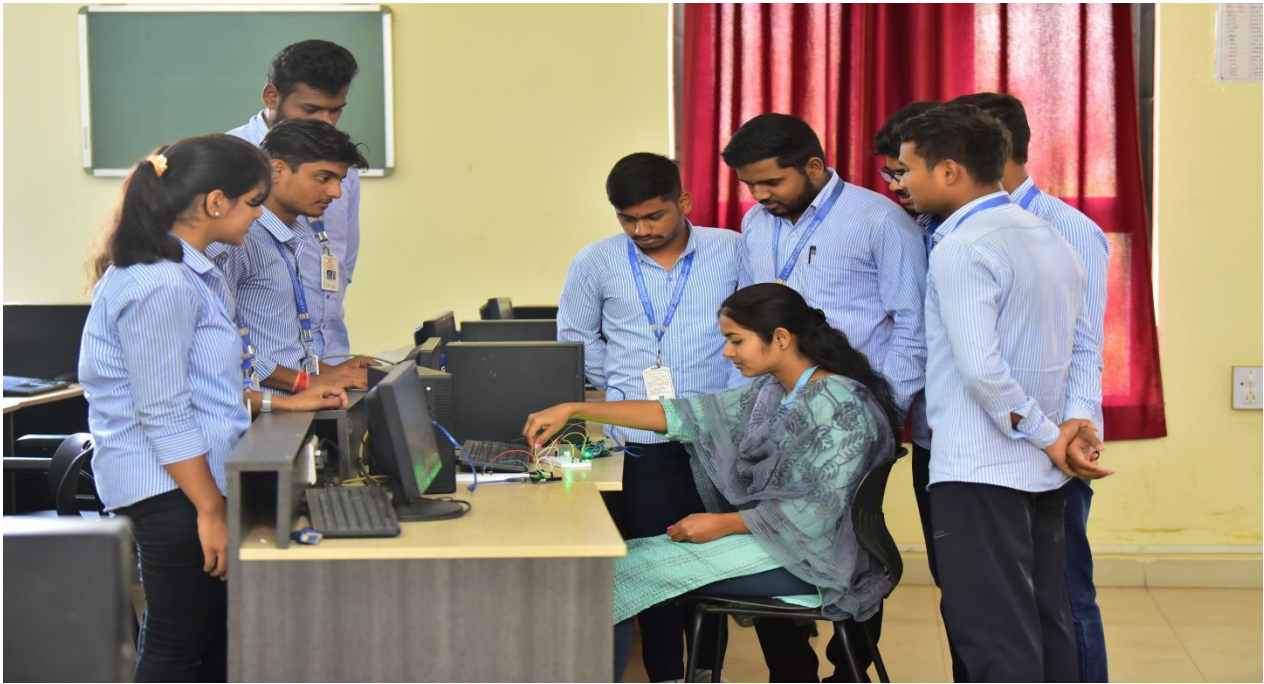
Snaps while Hands On practice session dated on 26/03/2025





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