

A Brief report on

A Two-day Workshop on

“Internet of Things (IoT) using ARDUINO Tools and Techniques”

Held during 6th & 7th Jan, 2023

Organized by

Department of Electrical and Electronics Engineering

In association with Pantech e Learning Pvt. Ltd.

Methodist College of Engineering and Technology

Abids, Hyderabad





METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD.

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Osmania University
King Koti Road, Abids, Hyderabad - 500 001, T.S.



A Two-Day Workshop on “Internet of Things (IoT) using ARDUINO Tools and Techniques”

Date: 06-01-2023 & 07-01-2023

Organized by :

**Department of Electrical and Electronics Engineering
in Association with Pantech E-Learning Pvt. Ltd.**



Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

Venue: C-210, MCET

Faculty Coordinators
Mr. P. Rajinikanth
Mrs. A. Archana

HOD
Mrs. Y. Mastanamma

Principal
Dr. Prabhu G Benakop

About the workshop:

As we know “The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

This Workshop is aimed to explore the potential areas and the significance in the fields of Internet of Things(IOT).

Venue:

6th & 7th Jan, 2023.

C-210, C – Block

Department of EEE,

Methodist College of Engineering and Technology.



Resource Person:

Mr. Swamy is employed with **Pantech e Learning** as a subject expert. His working areas include IoT applications; He has trained over more than 1000+ students and faculties across various universities and colleges in AP & TS.

The main topics covered in the workshop are given below:

- Different types of Arduino board such as Arduino Uno, Arduino Uno R3 SMD,• Ardino Pro 3.348 MHz , Arduino mini , Aurdino Ethernet and there characteristics (Power supply, clock speed, Digital I/O, Analog Input, PWM modulation and different kinds of interfacing.
- Wi-Fi module Programming with Arduino.
- Interfacing of sensors and uploading data on cloud.
- For Interfacing different types of sensors with Arduino and Arduino with database, different programming steps have been discussed (function , statement ,control statement levels variables, math, pin mode, serial mode, digital mode variable, delay and for loop)
- Interfacing and controlling various devices like LED, motors, sensors etc with Arduino.
- ✓ **Total 70 students participated in the workshop.**

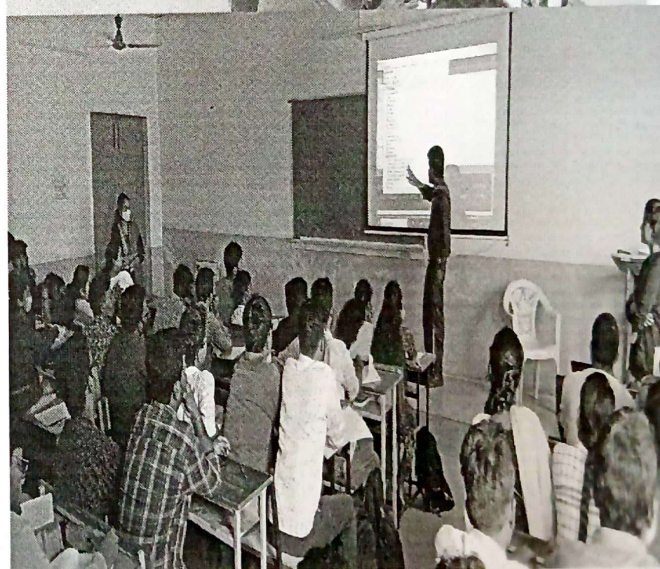
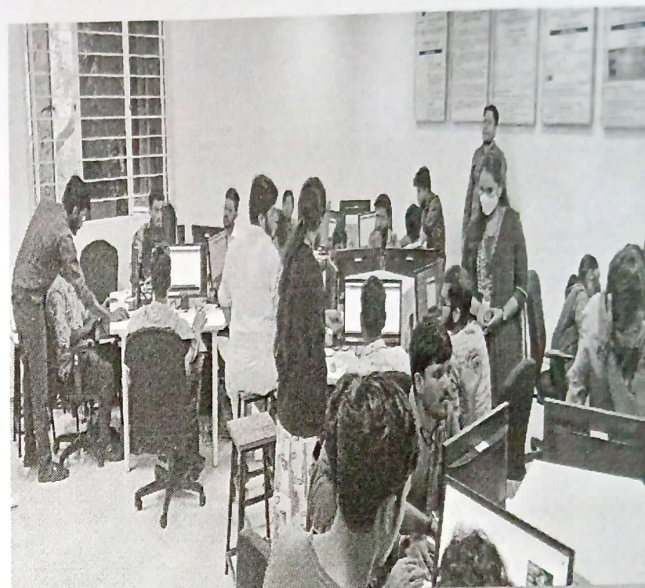
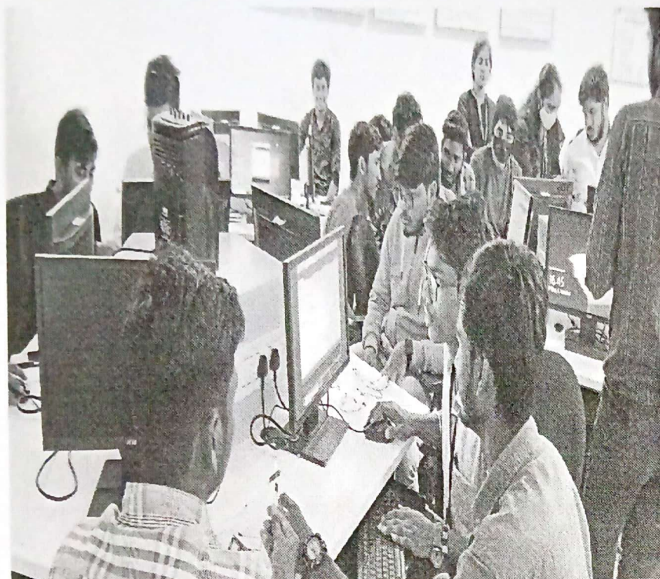
Outcomes of the workshop:

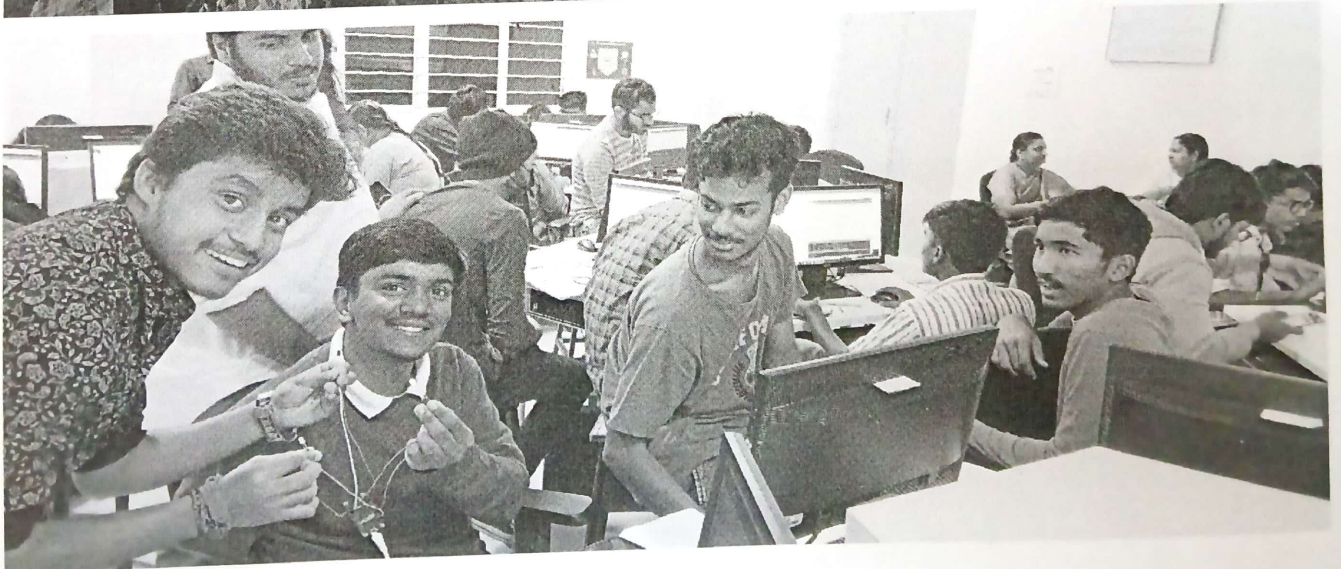
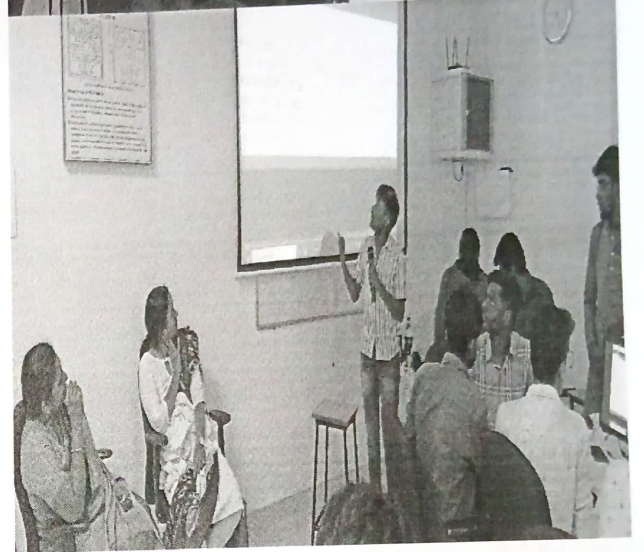
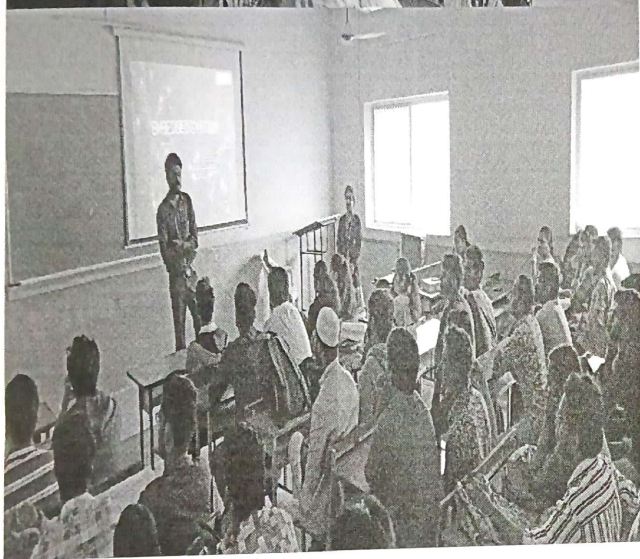
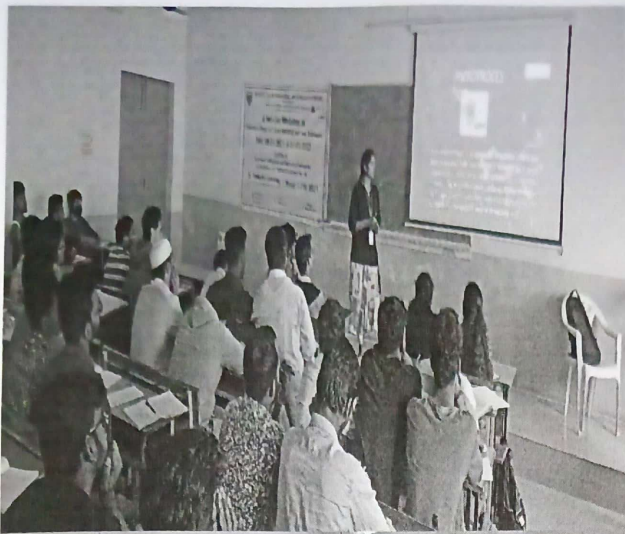
Students after attending the workshop were able to understand

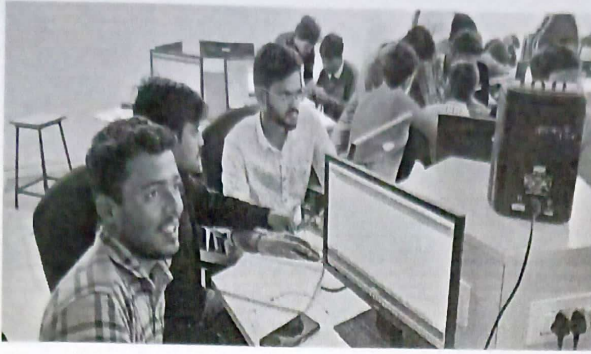
- What “the Internet of Things” means and how it relates to Cloud computing concepts
 - How open platforms allow you to store your sensor data in the Cloud
 - The basic usage of the Arduino environment for creating your own embedded projects at low cost
 - How to connect your Arduino with your Android phone.
 - How to send data to the Internet and talk to the Cloud.
- Students were benefitted with workshop and learned modern tools and techniques which will be useful for creating and modelling engineering projects and also the **program outcome PO5 is attained by the students with this workshop**

At valedictory ceremony, the participants were awarded the certificates and provided with the kit to continue their journey with IoT. Also competitive hands-on problem has been given to the students and students actively participated.

Glimpses of Events:







Report Submitted by:

P. Rajini Kanth (Coordinator)

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