

Schedule:

Date: 10-10-2025

Morning Session

- Introduction to Open Hardware
- Introduction to Arduino Installation and IDE setup
- Introduction to Analog and Digital Sensors
- Serial Communication

Hands on:

- basic LED Blink, Fade
- Automatic Traffic Light Control System

Afternoon Session

Hands on:

- Room Temperature with Analog Sensor
- Intruder Alert System
- I2C Communication
- Interfacing Sensors with External Displays and Arduino
- Introduction to SG-90
- Obstacle Detection and Obstacle Range Finder
- Smart Dustbin

Date: 11-10-2025

Morning Session

- Introduction to ESP32 and IoT
- IoT Protocols and Architecture
- Introduction to Boards Manager and Library Manager
- Drivers Setup and Troubleshooting

Hands on:

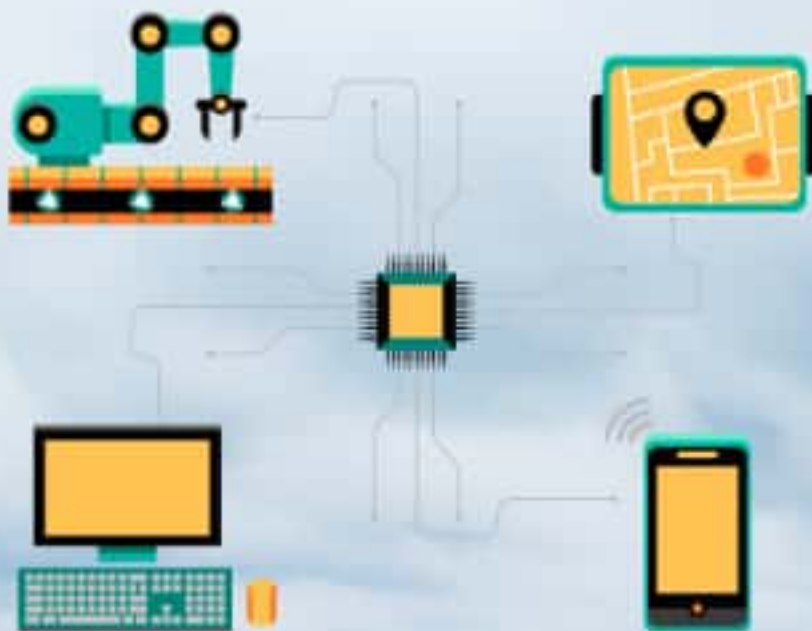
- Exploring ESP32 Built in Features
- Wi-fi Access Point
- Wi-fi Client-server

Afternoon Session

Hands On:

- Introduction to Cloud & Cloud Agents
- Introduction to Electro Mechanical Switches
- Introduction to BLE
- Interfacing Multiple Devices with BLE
- Cloud Setup & Cloud Environment
- Brokers & Dashboards
- Android Integrated Home Automation with Cloud Connectivity

Scan to
Registration



ACE
Engineering College
(Approved by AICTE & Affiliated to JNTU)



**Department of
CSE (Artificial Intelligence and Machine Learning)**

2-Day Workshop on IoT with Arduino and ESP32

**Participants:
B.Tech CSM Students**



10th and 11th October 2025



Venue: Block-2 (2407)

CHIEF PATRONS

Prof. Y. V. Gopala Krishna Murthy
(General Secretary)

Mr. Y. V. Raghu Vamsi
(Chief Operating Officer, Office of the General Secretary)

PATRONS

Dr. M. Keshava Reddy
(Principal)

Mrs. Mamatha Rao Pasumarthi
(Director- Administration and Operations Management)

Dr. M. Murali
(Vice Principal)

CONVENOR

Dr. S. Kavitha
(Assoc. Prof, HoD-CSM)

COORDINATOR

Mr. D. Ranjith
(Assistant Professor, Dept of CSM)