Sandip Institute of Technology and Research Centre
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(Approved by AICTE, New Delhi, & Govt. of Maharashtra and Permanently Affiliated to Savitribai Phule Pune University (Formerly Pune University), Pune.
Accredited with "A" grade by NAAC With CGPA Score of 3.11

DEPARTMENT OF ELECTRICAL ENGINEERING

(A.Y 2023-24)

NOTICE

Date: 25/9/2023

All students of TE and BE are hereby inform that the Department of Electrical Engineering is going to organizing a two days' workshop on "IOT using Arduino" on date 22/3/2024 to 23/3/2024 for SE and TE student's.

Students enroll their name to Prof. T. J. Bharambe before 29/09/2023.

Time: 10:00AM To 5.00PM

Venue: EE Dept .SITRC, Nashik

Electrical Engineering Department SITRC, Nashik

HOD
Electrical
Head of Department
Electrical Engineering
Sandip Institute of Technology and Research Centre
Mahiravani, Nashik-422213

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DEPARTMENT OF ELECTRICAL ENGINEERING

(A.Y 2023-24)

Theory Course Content- Topics covered during the Workshop-

Module 1: Introduction to MATLAB and Basic Programming Concepts

Module 2: Advanced MATLAB Programming and Applications

Program Agenda-

Day	Time	Program	Topic
1	10 am To 1 pm	Morning session	Module 1: Introduction to MATLAB and Basic Programming Concepts
	1 pm To 2 pm	**Lunch Break**	
	2 pm To 5 pm	Evening Session	Module 1: Introduction to MATLAB and Basic Programming Concepts
2	10 am To 1pm	Morning session	Module 2: Advanced MATLAB Programming and Applications
	1 pm To 2 pm	**Lunch Break**	
	2pm To 5 pm	Evening Session	Module 2: Advanced MATLAB Programming and Applications

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DEPARTMENT OF ELECTRICAL ENGINEERING

(A.Y 2023-24)

Workshop Report

Name of the Event: VAP on "IOT using Arduino"

Event Date: 22/3/2024 to 23/3/2024

Event Conduction Duration: 10.00 am to 5.00 pm

No of Participants: TE/BE: 51 Students

Name of Resource Person: Prof. Sushant Pawar, E&TC SITRC

Name of Event Coordinator: Prof. T. J. Bharambe (Asst. Prof, Electrical Dept., SITRC, Nashik)

Course Objectives:

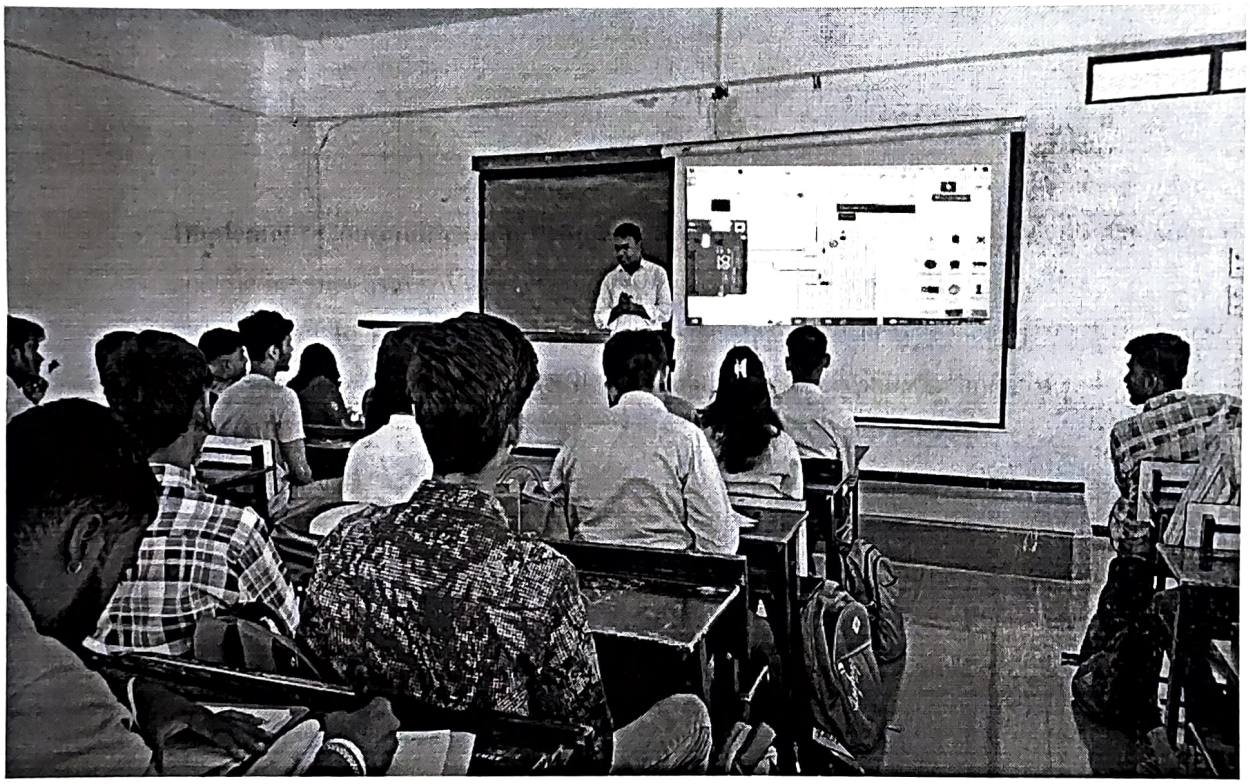
1. **Introduce IoT Fundamentals**: To familiarize participants with the basics of the Internet of Things (IoT), its applications, and how IoT is transforming industries and everyday life.
2. **Hands-On Experience with Arduino**: To provide practical experience with the Arduino platform and how it can be used to interface sensors, actuators, and communication modules to create IoT systems
3. **Understanding Communication Protocols in IoT**: To introduce participants to communication protocols commonly used in IoT, such as MQTT, HTTP, and Wi-Fi, and demonstrate how these protocols can be implemented on Arduino-based systems.
4. **IoT Security Concepts**: To provide a basic understanding of security concerns in IoT systems and methods to secure IoT devices, including encryption and secure communication.

Course Outcomes:

1. **Understand the Basics of IoT**: Explain the core concepts of the Internet of Things (IoT) and its applications in various domains such as home automation, healthcare, agriculture, and smart cities.
2. **Set Up and Program Arduino for IoT Projects**: Program an Arduino board to interact with sensors (temperature, humidity, light, etc.) and actuators (motors, relays, LEDs).

3. **Implement Communication Protocols for IoT**: Set up communication between Arduino and the internet using Wi-Fi (via modules like ESP8266 or ESP32).
4. **Understand IoT Security Basics**: Understand basic security concepts for IoT devices, such as secure communication (SSL/TLS) and basic encryption techniques.

EVENT PHOTOS:



Prof. Sushant Pawar, explaining about IOT using Arduino