

**Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
Department of Electronics & Telecommunication**

Date:03rd September 2019

Name of Event:- Three days workshop on “**Advanced trends in Embedded system**”

Date of Event:- 29-31 August 2019

Name of resource person: - Mr. Ganesh Attarde, GB Softronics Solutions, Nashik

Objectives:

- To familiarize with latest trends in Embedded system.
- To learn the Basics of Arduino board, Programming of arduino.
- To learn digital & analog IO interfacing, sensor interfacing & LCD interfacing.
- To construct a simple Utility Project.

Contents Covered in the Workshop:

Introduction to Arduino

- What is Arduino?
- Introduction to ATMEGA 328.
- Arduino Boards overview.
- Arduino Uno board explanation.
- Sensors and Actuators.
- LED Interfacing
- Serial Interfacing and Hands on.
- Switch Interfacing and Hands on

Digital and Analog IO Interfacing

- 7 Segment Interfacing
- Buzzer Interfacing

- POT Interfacing
- Servo Motor Interfacing
- IR Sensor Interfacing

More interfacing and Project Construction

- LCD Interfacing
- DHT11 Interfacing
- Construction of a minor but useful project by the student using the Arduino Board.

Outcome: After successfully completing the workshop students will be able to

- 1) Understand the importance & latest trends in embedded system.
- 2) Understand the basics of Arduino board & programming of arduino.
- 3) Implement & interfacing of various sensors with arduino board.

Photos:





Mr. Mukesh P. Mahajan
Event Co-ordinator

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