Sandip Foundation's
Sandip Institute of Engineering and Management, Nashik
Department of Computer Engineering
Academic Year 2017-18

Report on Workshop

1. Event Title: **State Level workshop**.

2. Event Date: 6th to 7th Feb 2018 and 15th to 17th March 2018.

3. Event Conduction Duration: 5 days (35 Hours)

4. Event Venue: **Computer Department Seminar Hall and Labs.**

5. Event Resource Person Details:

       1) Prof. R S Tiwari

           Director, Cognifront

      2) Prof. A H Palve

           Asst. Prof. Computer Department

           Sandip Institute of Technology and Research Centre

      3) Prof. P S Aswale

           Asst. Prof. E&TC Department,

           Sandip Institute of Engineering and Management.

      4) Mr. Ganesh Gaikwad,

           Cognifront Technologies,

           Nashik

6. Name of Event Coordinator: Prof. Abhay Gaidhani

                  Prof. M V Korade

                  Prof. A C Taskar

7. Expected Audience: Students of TE and SE(Computer)

8. Number of Participants: 66 + 47 = 113.

9. Course Content:
  - ➢ Arduino Interfacing

  - ➢ Raspberry Pi Interfacing With PC.

  - ➢ LED Bar using RPI.

  - ➢ PIR Sensor using RPI.

- ➢ Proximity Sensor using RPI.

- ➢ Temperature & Humidity Sensor using RPI.

- ➢ Camera Module using RPI.

- ➢ Write an application using Raspberry-Pi /Beagle board to control the operation of stepper motor.

- ➢ Write an application using Raspberry-Pi /Beagle board to control the operation of a hardware simulated traffic signal

- ➢ Safety and Panic Switch for Women.

- ➢ Smart Electricity Grid and eBill generation using Cloud

- ➢ Adaptive Street Lighting System

- ➢ MP3 Player and Public Announcement System

- ➢ Patient Health Monitoring System using Body Area Network

- ➢ Home Automation

- ➢ Electronic Leveling Meter

- ➢ Vehicle Accident Detection System

- ➢ Tsunami Early Warning System

- ➢ Earthquake Detection and Alarm System.

- ➢ Cold Chain Monitoring System

- ➢ Range Finder

10. Event Objectives & Outcomes:

Objectives:-

1. Providing opportunity to faculty and UG students of Engineering Colleges or improving their technical skills and knowledge.

2. Providing an opportunity for interaction and mutual exchanges of ideas between interested teachers and trainer working in particular areas of specialization.

3. Providing an opportunity for teachers to familiarize themselves with modern engineering practices including the latest technological advances adopted by industry in view the national needs and relevant technologies.

Outcome:-

1. At the end of the workshop, each participant attending this workshop is expected to have enhanced his/her knowledge on the future of technology –Internet of Things.

Photographs of Date 06/07/18:-

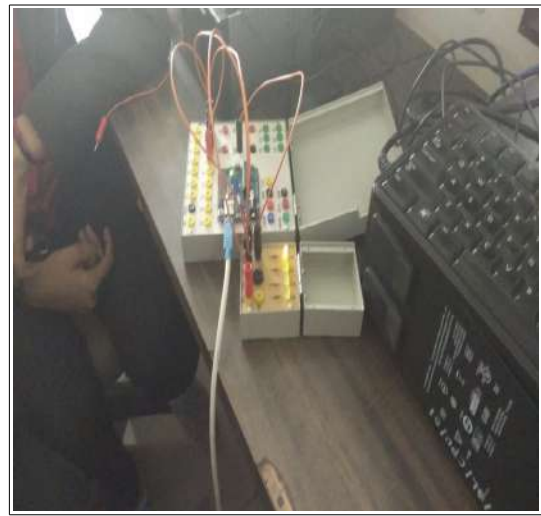**Workshop Inauguration by Dr. R V Kshirsagar, Dr. R S Tiwari, Dr. K C Nalawade, Prof A R Gaidhani**

Felicitation of Dr. R S Tiwari, Dr. R V Kshirsagar

Expert Session by Dr. R S Tiwari

Photographs of date 07/02/2018:-

Practical Session by Prof. A R Gaidhani, Prof. A C Taskar, Prof. M V Korade

Final Year Students Demonstrating their project to TE Students