



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

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**Name of Event:** Workshop on '**Design of an android app for Embedded Systems**'

**Date of Event:** 7, 8 and 9 September 2018

**Type of the Event:** Workshop

**Duration of Event:** 18 Hours or 3 Days

**Name of resource person:** Prof. Joshi Vaibhav

**Name and Address of Company:** SITRC, E&TC Department

**Name of Event Coordinator:** Prof. Joshi Vaibhav

**Detail of Participant with Count: Details like:** SE and TE Student, Total Count : 35

**Revenue Generated Details:** NA

**Objectives:**

To impart practical knowledge on designing android app and using it for controlling Embedded Systems. To enhance the creativity of students through the android app designing.

**Outcome:**

After completion of this workshop student will be able to design its own android app for controlling the Embedded System. This will also helpful for his/her TE and Final year projects.

Student will be able to use following built-in blocks of smart phone for his/her project development:

1. Bluetooth
2. Proximity Sensor
3. Text to Speech converter
4. Accelerometer
5. Webbrowser

Student will be able to interface following Input/Output devices to the microcontroller

1. Servomotor
2. DC motor with Driver
3. LED
4. Sensors: DHT11 (Temp and Humidity), MQ2, Light Sensor etc.
5. Buzzer

**About the Event:**

This workshop basically aims at designing of an android app for embedded systems. Also create interest in SE and TE E&TC students for block programming language. This workshop is helpful to the students for implementing their TE mini projects and final year projects with android app.

## Photographs:

Fig: Students hands on practice in workshop



Fig: Students hands on practice in workshop

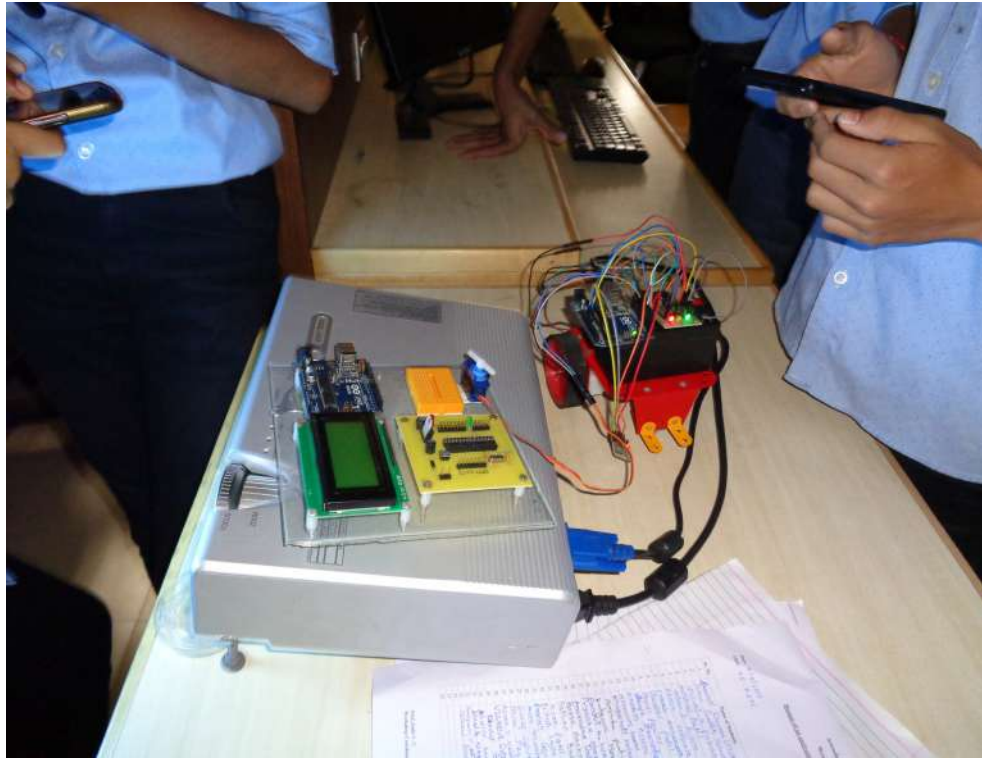


Fig: Robot designed in workshop

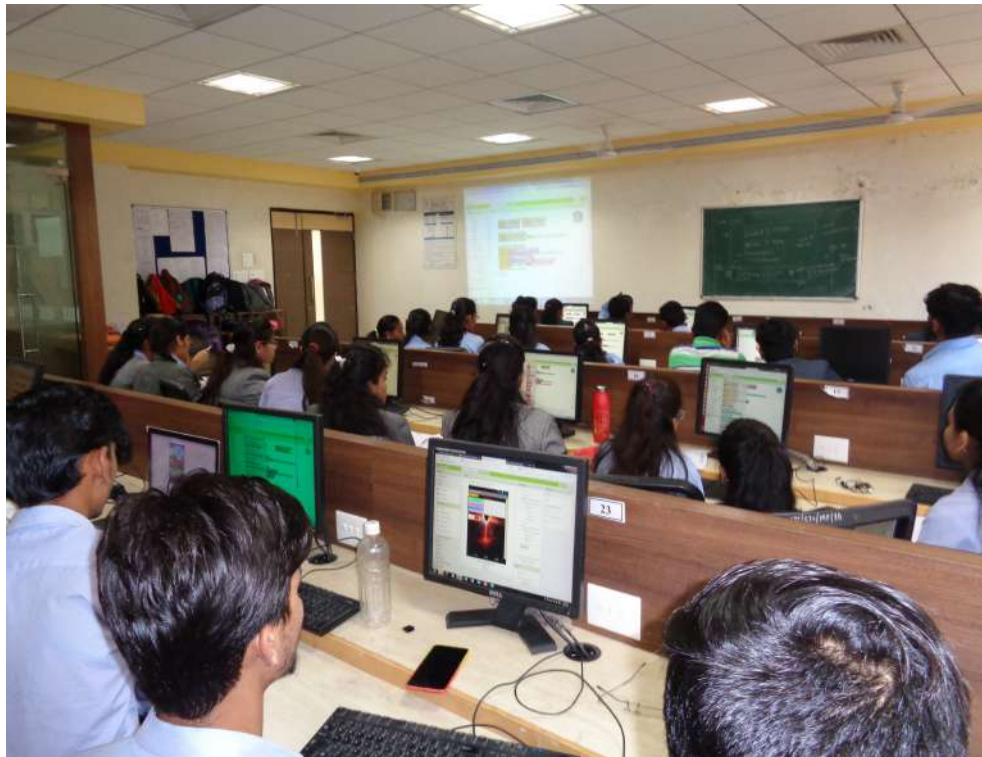


Fig: Students hands on practice in workshop

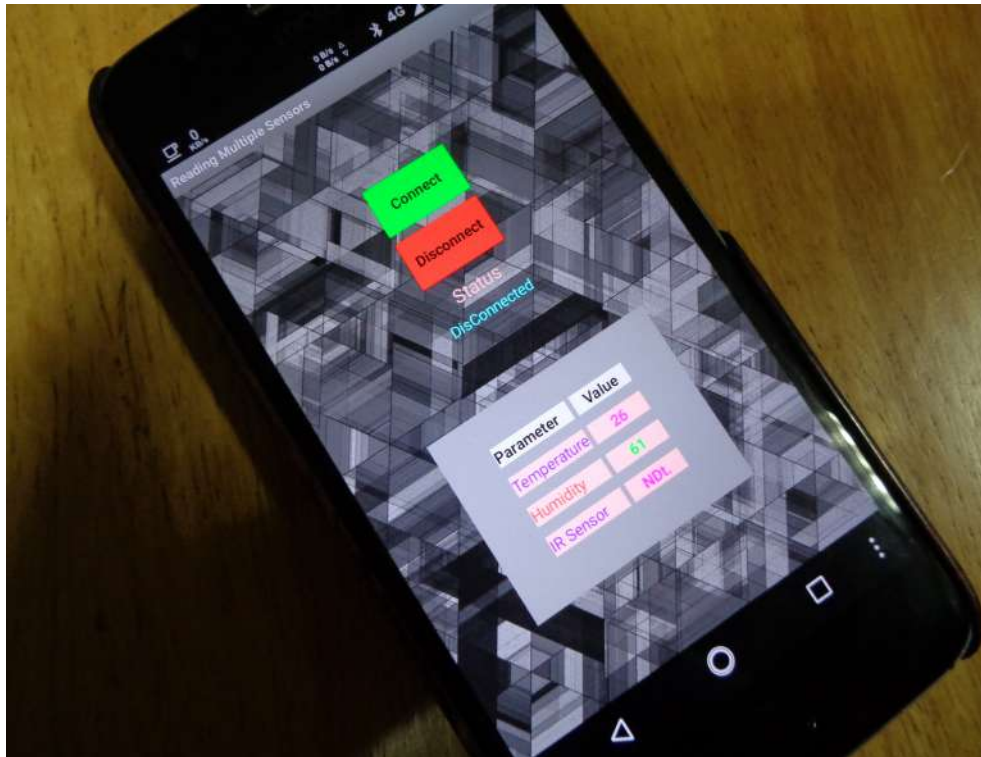


Fig: Interactive app developed by student for reading remote data sensed by sensor



Fig: Students hands on practice in workshop

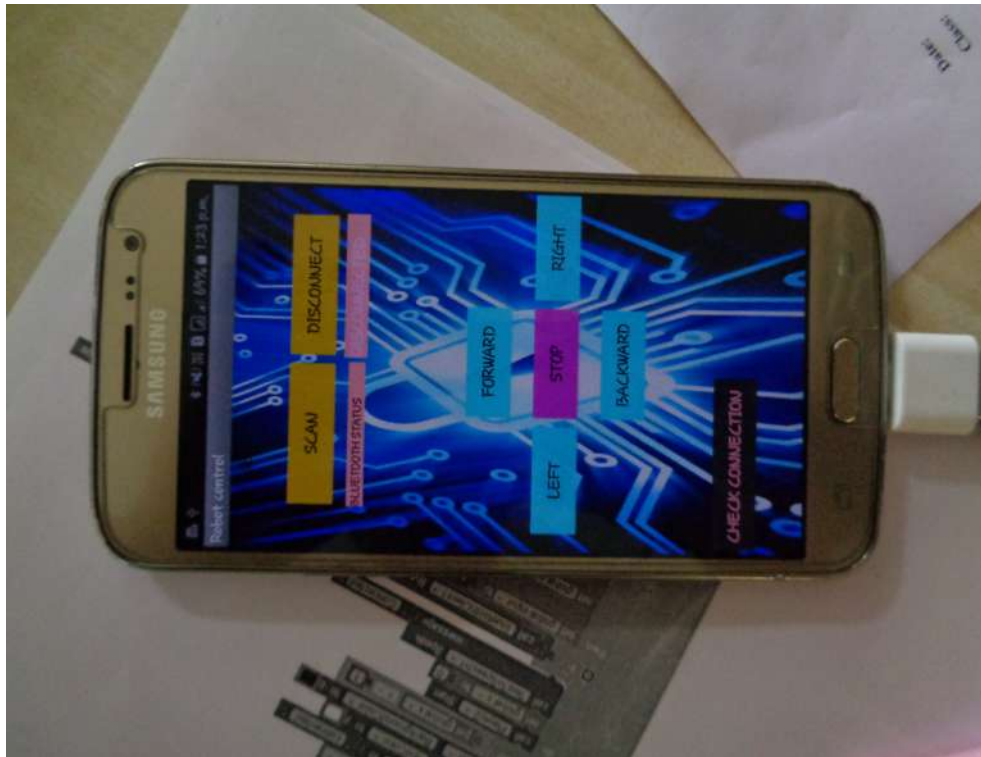


Fig: Interactive app developed by student for controlling robot

Prof. Joshi Vaibhav  
**Event Coordinator**

Prof. Dr. Gayatri M. Phade  
**Head-E&TC Engg Dept**