



Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and
Technology, Baramati- 413133
Department of Electronics and Telecommunication Engineering

Date: 12th February 2020.

***“INSTITUTE SOCIAL RESPONSIBILITY (ISR)
Technology Awareness Program” on***

**Internet of Things (Arduino) for school
students (Class IX)**

Event Agenda:

- To make students aware of recent technology development in the field of Electronics and Telecommunication and to give some hands on experience on electronic instruments available in laboratories

Event Speakers:

- Mr. Shrikrishna U. Kolhar (Ass. Prof., E&TC Dept.)
- Mr. Vikas U. Deshmukh (Ass. Prof., of E&TC Dept.)

Supporting Staff:

- All Lab Assistants and Peons E & TC Department
- SE E & TC Student volunteers

Target Audience:

- Class IX students from VP's Marathi Medium School, Baramati
- 50 students.

Date: 12th February 2020

Venue: Digital Electronics Lab

Resources: DC Power supply, Multi-meter, Function Generator, Digital Oscilloscope, Arduino kits, Robotic platforms (Firebird V and Spark V).

Brief Report:

The program was divided into three modules:

1. **Introduction to Electronic components and various electronic instruments:** In this first module Mr. Vikas U. Deshmukh taught students how to use DC power supply and function

generator. He also taught to measure basic parameters like resistance, voltage, current, using multi-meter and waveform amplitude and frequency using digital oscilloscope.

- 2. Introduction to Microcontrollers and Arduino board:** In this module Mr. Shrikrishna U. Kolhar introduced students with Microcontrollers, memory (RAM and ROM), sensors and programming language required for microcontrollers. Then he introduced students with popular microcontroller board i.e. Arduino.
- 3. Project demonstrations:** SE E & TC student volunteers demonstrated projects using Arduino boards and robotic platforms. Students explained various electronic components used in the project, their working and programming logic.

Contents Covered:

Sr. No.	Topic	Duration
1	Introduction to Electronic components and various electronic instruments	1 hr
2	Introduction to Microcontrollers and Arduino board	30 min
3	Project demonstrations:	45 min

Photo Gallery:



