



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

Date: 28th January 2020.

“Technology Awareness Program”
**Three Hours course on IOT(Arduino) for
school students (8th to 10th)**

Event Agenda:

- To make school students aware about Electronics Branch, career opportunities after doing Engineering in Electronics and Telecommunication and project development using Arduino.

Event Speakers:

- Ms. S. B. Nikam (Ass. Prof. of E&TC Dept.)
- Mr. D. T. Krushnure (Ass. Prof. of E&TC Dept.)
- Mr. R. S. Piske (Ass. Prof. of E&TC Dept.)
- Mrs. V. S. Surwase (Ass. Prof. of E&TC Dept.)

Supporting Staff:

- Mr. A. W. Bhagat (Ass. Prof. of E&TC Dept.)
- Mr. Waykule (Lab Technician)
- Mr. Gade (Lab Technician)

Target Audience:

- 8th to 10th school student from VP's new English medium school.
- 41 students.

Date: 28th January 2020

Venue: Computer lab 103

Resources: Arduino kits, Sensors, Microphone, Speaker etc.

Brief Report:

The event was organized under technology awareness program for school students to provide the information about electronics engineering and the career opportunities in this branch. Event inauguration was done by Principal Dr. R. S. Bichkar and guest from Cresendo company.

After that first session was conducted by Prof. Piske on brief about Electronics branch and career opportunities. then next session was conducted by prof. Surwase on introduction to all electronic components after that prof. Krushnure delivered a lecture on computers and programing languages. last session was conducted by prof. Nikam on what is IOT and project development using Arduino at the end 3 projects were kept for demonstrations by department students.

Syllabus:

| Sr No. | Topic | Duration |
|---------------|---|-----------------|
| 1 | Overview of Electronics Applications | 15 min |
| 2 | Basic Electronics Components: Resisters, capacitors, inductors, Logic gates, microcontrollers and microprocessors, Sensors, Actuators | 30 min |
| 3 | Basics of computers and C programming | 30 min |
| 4 | Introduction to Arduino | 30 min |
| 5 | ➤ Interfacing Sensors to Arduino <ul style="list-style-type: none"> ✓ Ultrasonic ✓ Pulse ✓ Temperature and humidity | 30 min |
| 6 | ➤ Interfacing actuators to Arduino <ul style="list-style-type: none"> ✓ Relay ✓ Buzzer ✓ DC Motor | 30 min |
| 7 | ➤ Project demo | 15 min |

Photo Gallery:





