Student Training Programs
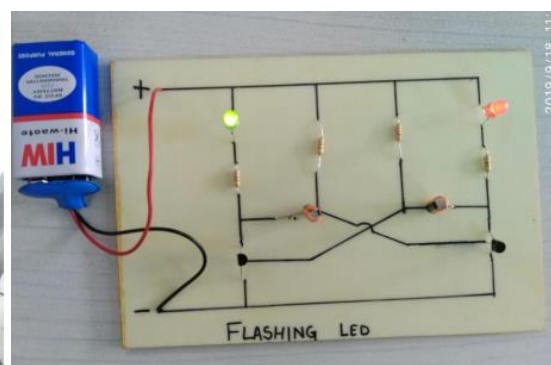
Student training program on "PCB Making and Circuit building"

A student training Program on "PCB Making & Circuit Building" was conducted on 16th and 18th of September 2019. The program was organized by faculty members Mrs. A.S.Nigade and Mrs. Sonali Pawar.

PCB Designing is one of the most emerging field in Electronics in today's era. For the students of Electronics this is a good field to start their career. PCB designers are key persons in research and development (R&D), electronics production units as well as in the PCB industry. The workshop was aimed to provide knowledge about making of PCB and circuit. Almost 22 students from the department have participated in the workshop.

Contents:

- ❖ Schematic Design
- ❖ Introduction of Bread Board
- ❖ Layout, art work
- ❖ Etching process
- ❖ Drilling
- ❖ Mounting of components
- ❖ Soldering

Student training program on "Programming and Interfacing of 8051 and PIC Microcontroller"

A student training Program on "Programming and Interfacing of 8051 and PIC Microcontroller" in association with Akhilesh Electricals, Pune was conducted on 23rd and 24th of August 2019 for the students of B.Tech. Sem –V. The program was organized by faculty members Mrs. P.R. Naregalkar and Mrs.J. S. Morbale.

The focus of the training program contained hands-on session where students can explore practical knowledge of interfacing techniques with Microcontrollers.

Contents:

- ❖ Introduction.
- ❖ 8051 Microcontroller.
- ❖ Features of 8051 Architecture.
- ❖ 8051 microcontroller Pin Diagram and Pin Functions
- ❖ Addressing modes of 8051 mc.
- ❖ LCD interfacing with 8051 microcontrollers.
- ❖ LED interfacing with 8051 microcontrollers.
- ❖ RELAY interfacing with 8051 microcontrollers.
- ❖ SWITCH interfacing with 8051 microcontrollers.
- ❖ KEYPAD interfacing with 8051 microcontrollers.
- ❖ Conclusion

<div align="center">Student training program on "**Arduino"**</div>

        Student training program with hands-on sessions on "Arduino" was conducted by Dr Rajesh Ghongade, Professor from Department of Electronics & Telecommunication. Training was conducted for two days on 30th and 31st August 2018 for the students of B. Tech sem-III. The program was organized by faculty members Mrs. A.S.Nigade and Mrs. Sonali Pawar.

<u>Contents:</u>

- ❖ Introduction to Arduino
- ❖ Installation of Arduino IDE Software
- ❖ Interfacing of LED with Arduino
- ❖ Interfacing of LCD 16X2 with Arduino
- ❖ Interfacing of ultrasonic sensor (HC-SR04) with Arduino
- ❖ Interfacing of Accelerometer MPU6050 with Arduino
- ❖ Interfacing of Humidity and temperature sensor (DHT 11) with Arduino

Student training program on "Industrial Automation"

Student training program with hands-on sessions on "Industrial Automation" was conducted by Mr. Yogesh Raybhoge, Educate To Automat, Pune for four days on 28th February to 3rd March 17 for the students of B. Tech sem-VI. The program was organized by faculty members Mrs. A.S.Nigade and Mrs. Sonali Pawar.

Contents:

- ❖ Introduction to industrial automation
- ❖ Relay logic and PLC
- ❖ Working with PLC and SCADA
- ❖ Sensors