

# 'ARDUINO WORKSHOP'

Get ready to revise the School-Time definitions of Hardware and Software as you are going to integrate those two Wor(l)ds using a Magical Spell called ARDUINO !

The Computer Society of MIT takes its pride in presenting the 'ARDUINO' Workshop in its National Level Technical Fest Carte Blanche'17.

## **What is Arduino?**

Arduino is an open-source platform used for building electronics projects. Arduino consists of both a physical programmable circuit board (often referred to as a microcontroller) and a piece of software, or IDE (Integrated Development Environment) that runs on your computer, used to write and upload computer code to the physical board.

## **Why Arduino?**

The Arduino platform has become quite popular with people just starting out with electronics, and for good reason. Unlike most previous programmable circuit boards, the Arduino does not need a separate piece of hardware (called a programmer) in order to load new code onto the board – you can simply use a USB cable. Additionally, the Arduino IDE uses a simplified version of C++, making it easier to learn to program. Finally, Arduino provides a standard form factor that breaks out the functions of the micro-controller into a more accessible package.

This Workshop running for a Day of time has the following as its **Primary Objectives**

- Illuminating the Participants with the Basic of knowledge of Arduino Development Board.
- Tutoring of Basic Algorithms of Arduino Programming.
- Intending to teach the Integration of Basic Modular Components such as Switches, Sensors and Motors with the Board.
- At the end of the Workshop, the Participants will be taught enough to design an Effective Solution for a Real Life Problem using Arduino.

## **What will you take Home?**

- Arduino Kit
- Arduino Basics Manual
- And of course, the Knowledge of Arduino!