

# autoMation(workshop,IoT); //build\_a\_thon

Automation is the next big thing in the technically global environment. Lot of people have already understood the benefits of this, while some are yet to understand.

Understanding the need of the hour, an IoT workshop is being organised. This workshop is mainly aimed to create awareness on IoT by giving hands-on experience of building an IoT application using NodeMCU module.

*Place: COLLEGE OF ENGINEERING, GUINDY, CHENNAI*

*Date: 08/03/2018 & 09/03/2018*

## **AGENDA:**

### DAY 1 (08/03/2018)

- ***Morning session (#timing#)***: Discussion on IoT and its scope; Introduction to nodeMCU- topics will revolve around pin description, best features of the module, basic programming. Working with digital and analog pins.
- ***Afternoon session(#timing#)***: Sensors interfacing- topics will include hands-on practice with sensors like temperature sensor, hall effect sensor, LDR, etc.; web server using nodeMCU- HTTP protocol concepts, configuring nodeMCU as wireless access points and local area networking.

### DAY 2 (09/03/2018)

- ***Morning session(#timing#)***: Automation- topic encompasses introduction about automation and its present and future role; app creation; relay triggering using app; wiring.
- ***Afternoon session(#timing#)***: hands-on session with the take-away product!-**Smart WiFi Plug Socket.**

### ***BUILD\_A\_THON:***

Our main aim is to benefit the participants attending the workshop. So, a small test involving coding using sensors is conducted at the end of the workshop to know how much knowledge they gained during the workshop ( for interested teams only). Winning team will get back the whole registration fee amount paid!!!

### ***HARDWARE (take-away) KIT contains,***

- Node MCU
- Breadboard
- Jumpers
- Sensors
- LEDs
- Push buttons
- Junction box
- Relay

### ***Instructions:***

- ◆ Participants are requested to come in teams of **4** members each.
- ◆ Each team must have atleast **ONE** LAPTOP.
- ◆ Participants are requested to arrive at the venue atleast 15 min beforehand.
- ◆ Participating teams should follow the instructions given in the document attached below and must install the required software a day before the workshop.

### ***Important details:***

✓ **REGISTRATION FEE IS RS.4000 PER TEAM.**

✓ **CERTIFICATE OF COMPLETION OF THE TWO DAY WORKSHOP IS GIVEN TO ALL THE STUDENTS IN A TEAM.**

*Contact details:*

# A NATIONAL LEVEL TECHNO MANAGEMENT FEST



36<sup>TH</sup>  
EDITION



22<sup>+</sup>  
EVENTS

5  
WORKSHOPS

8-10  
MARCH

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