



JSPM's

## **JAYAWANT INSTITUTE OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi, Recognised by Gov. of Maharashtra & Affiliated to Pune University)

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**Department: MCA**

**Academic year 2018 -19**

**Session: II**

## **REPORT OF**

### **Hands on Workshop on Internet of Things (IOT)**

**Date: 22<sup>nd</sup> March 2019**

#### **Workshop Objective:**

- This program mainly aims at providing an opportunity for students to enrich their knowledge and skill in the area of IOT by developing various projects
- Provide introduction to Internet of Things (IoT)
- Exposure to various sub-fields and technology stacks of IoT
- Enable people to convert their IoT product idea into a working prototype
- Provide thorough working knowledge of the Raspberry Pi Platform
- Bring-up entrepreneurs and innovators by supporting them with mentorship

#### **Brief Description:**

Internet of Things (IoT) is a new revolution of the Internet and a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defense sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. A device become a smart device is called IOT. Now a days there are many android and server based application. In this system, value of sensor (e.g. temperature sensor, motion sensor, accelerometer sensor etc.) will be shown on GUI or web server or android application through wireless communication and device will be controlled automatically. Device will be operated on Wi-Fi / GPRS. Internet of Things, or IOT in short, is the idea of making devices and objects smarter by linking them to the internet. This workshop introduced the amazing world of IOT and its fascinating applications. Using Arduino development kit, students developed an electronic device using different types of

sensors. They also programmed the system in such a way that whenever device sensed light, water, temperature or any obstacle; buzzer started buzzing or LED started blinking.

Students enjoyed the session lot and uploaded the videos of devices developed by them on Instagram and YouTube. The session was concluded with vote of thanks.

### **Workshop Outcomes**

- Learn the basics of Internet of Things and its applications.
- The basic usage of the Arduino environment for creating your own embedded projects at low cost.
- Build IOT projects using sensors

**No. of Students Participated:** 37

**Resource Person:** Mr. TusharKute and Mr. AniketThorave

**Coordinators:** Prof. Shweta Padale and Prof. Leena Deshmukh

**Date:** 22<sup>nd</sup> March 2019

### **Glimpses of the Workshop:-**



**Facilitation of guest By HoD,MCA**



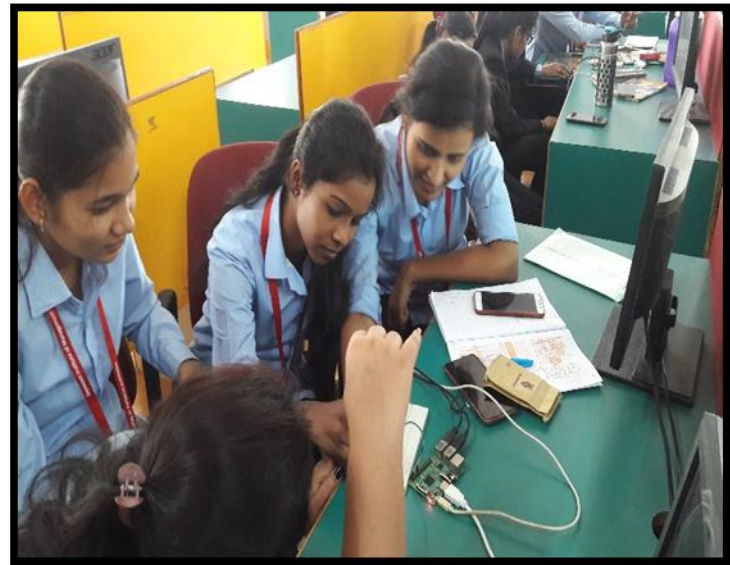
**Introduction to IOT by Mr.Tushar Kute.**



**Question Answer Session**



**About IOT**



**Hands on Session**