



# BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapura Main Road, Bangalore – 560064

## OPEN COURSE - DAILY REPORT

**Date:** 22-10-2019

Department	Artificial Intelligence & Machine Learning
Name of the Open Course	Intelligent IoT - Absolute End to End Communication
Coordinator	Dr Bharathi M A
Total No. of Students Present	35

### **DESCRIPTION**

Session – 1

Resource Person : Dr.Bharathi M A , Prof & HoD AI & ML, BMSIT&M

The Session started with introduction to IoT by defining IoT and differentiating between objects and things which are tangible and conceptual. The basic terminologies of IoT and the blocks and functional blocks of sensors was explained. The session also had discussion about 3 layered architecture and 5 layered architecture and also explained about the intelligent architecture with MDC , distributed data control nodes , data nodes with analogy of brain and nervous system. The distributed network is the spine with Mind neural networks. There was interaction about nodes and host and questions were asked about haptic and tactile internet. The session concluded with applications of IIoT, Hazards and Future prospects of IoT.

Session – 2 (AS) Dr.Vishwakiran , Asst.Prof, Dept of AI&ML, BMSIT&M

- Introduction to raspberry PI
- Hardware specification
- OS for Raspberry Pi



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## PHOTOS

### Session 1



Fig 1. Introduction to Intelligent IoT

### Session 2



Fig 2. Hands on Session – Raspberry PI





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**Date:** 23-10-2019

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Name of the Open Course	Intelligent IoT
Coordinator	Dr Bharathi M A
Total No. of Students Present	30

### DESCRIPTION

#### Section – 1

- Raspberry Pai Connection via Wireless
- Inside of Raspberry Pi
- Booting Raspberry with Different OS
- Cross Development Environment

#### Section – 2

- IoT Applications
- Setting up cross development tools
- Designing event based applications
- Designing timer based applications

### PHOTOS

#### Section 1





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## Section 2





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## OPEN COURSE - DAILY REPORT

**Date:** 24-10-2019

Department	Artificial Intelligent & Machine Learning
Name of the Open Course	Intelligent IoT
Coordinator	Dr Bharathi M A
Total No. of Students Present	30

### **DESCRIPTION**

#### Section – 1

The Raspberry Pi configuration tool in Raspbian, which allows you to easily enable features such as the camera, and to change your specific settings such as keyboard layout. Configuring your Pi to connect to a wireless network using the Raspberry Pi 3's or Pi Zero W's inbuilt wireless connectivity, or a USB wireless dongle.

Configuring your Pi as a wireless access point using Raspberry Pi 3 or Raspberry Pi Zero W's inbuilt wireless connectivity, or a USB wireless dongle.

#### Section – 2

Practical demonstration of Working Raspberry PI, Setting Raspberry PI as a PC, Connecting Via Internet / WiFi, Types of Sensors Server, Controlling Objects anywhere from the world Wifi. Mounting and setting up external storage on a Raspberry Pi.

The first step in this project is to design a simple LED circuit. Then we will make the LED circuit controllable from the Raspberry Pi by connecting the circuit to the general-purpose input/output (GPIO) pins on the Raspberry Pi.

A simple LED circuit consists of a LED and resistor. The resistor is used to limit the current that is being drawn and is called a current limiting resistor. Without the resistor the LED would run at too high of a voltage, resulting in too much current being drawn which in turn would instantly burn the LED, and likely also the GPIO port on the Raspberry Pi.

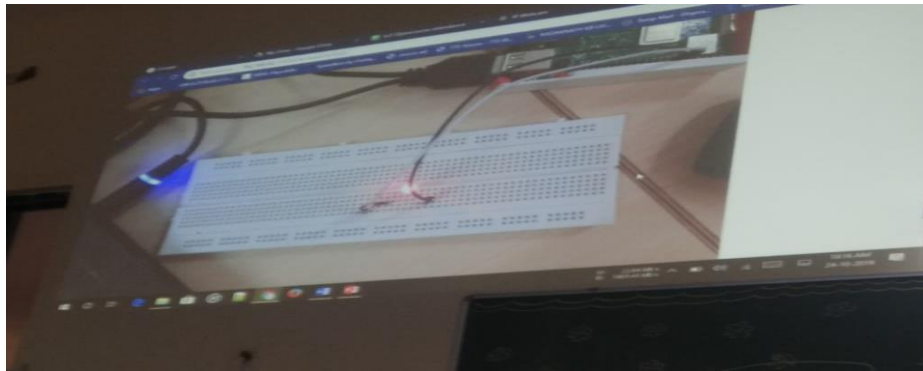


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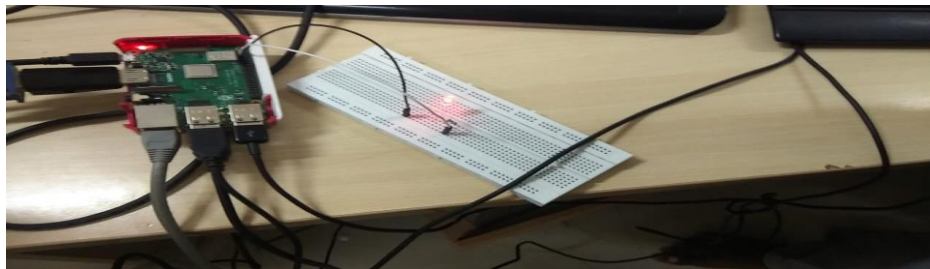
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## PHOTOS

### Section 1



### Section 2





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