



Gyanmanjari Institute Of Technology

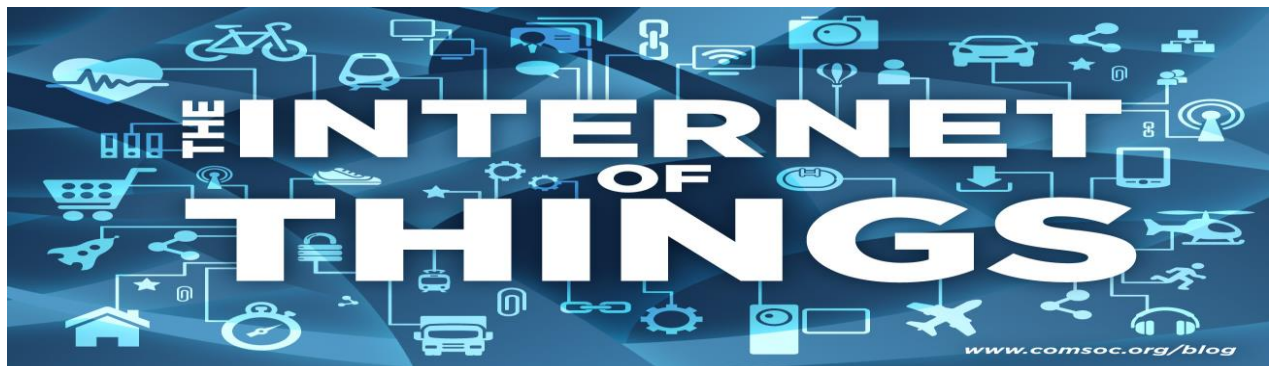
**DEPARTMENT OF COMPUTER  
ENGINEERING**

**Expert Talk Report**

**06/03/2017**

**On**

**Internet of Things (IoT)**



**Prepared by:**

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**H.O.D**

Prof. Amit Maru

**Principal**

Dr. H.M. Nimbark

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## INFORMATION

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### MEANING OF TOPS:-



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## Welcome & Introductory

A One Day Workshop on Internet of Things was organized by Computer Engineering Department of Gyanmanjari Institute of Technology on 06, March, 2017. The primary goal of this One Day Workshop is to enhance the technical knowledge of students about Internet of Things.

Internet of Things is no longer a theoretical concept but is rapidly becoming reality. IoT is a scenario where machines communicate with other machines and devices through embedded sensors.

The idea behind IoT is to create a well-connected world. Statistics show that by the year 2020 we will have close to 13.5 billion connected devices across the globe. The number is a whopping 6.4 billion connected things as of date. Imagine the magnitude!!

Expert had discussed following topics.

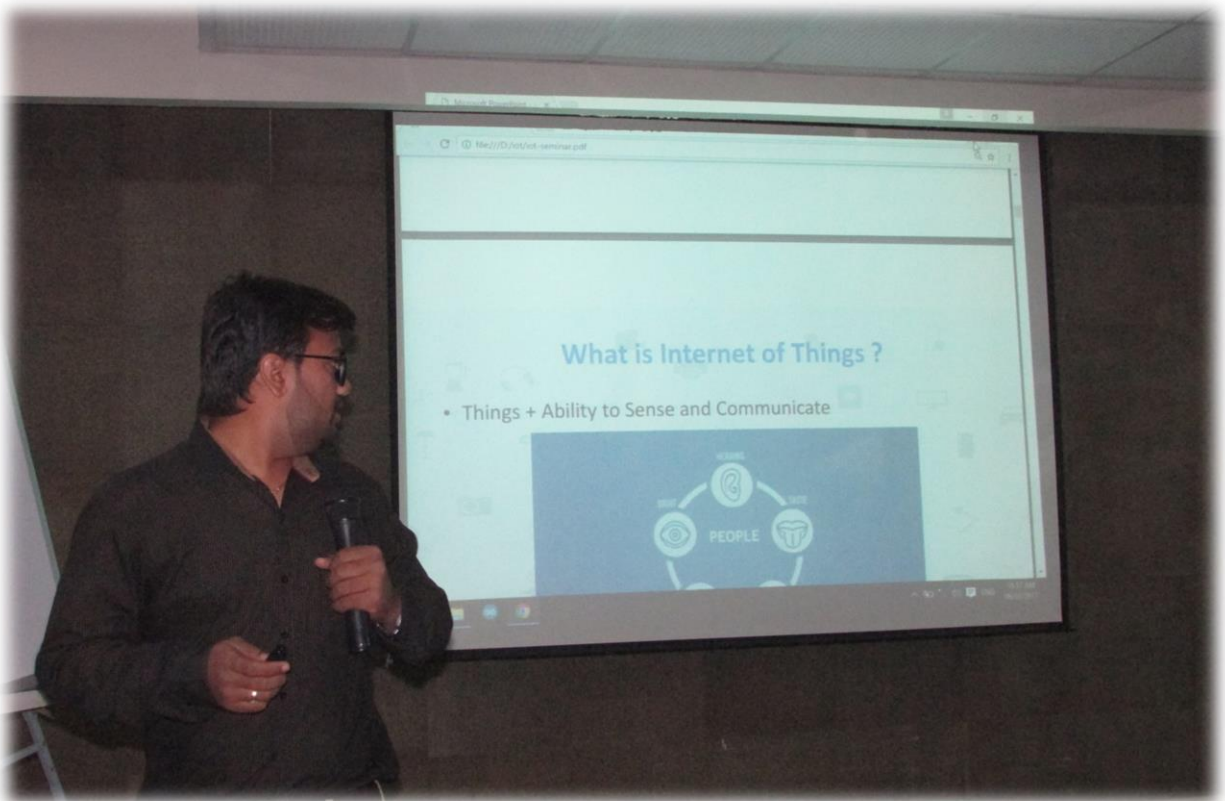
1. An introduction of IoT (Internet of Things)
2. How does this Impact You?
3. IoT Predictions, Trends, and Market
4. IoT Industries
5. IoT Companies
6. Latest Tools and Technology in IoT.
7. Live Demo of some Experiments.

**Prof. Amit Maru** (Head of Computer Engineering Department) has initiated workshop with welcome speech and Introduction of workshop expert **Mr. Hardik Waghela and Paresh Sir from Tops Technology, Bhavnagar.**



- **Session -1 About IoT**

1. What is Internet of Things?
2. How does this Impact You?
3. IoT Predictions, Trends, and Market
4. IoT Industries
5. IoT Companies
6. Latest Tools and Technology in IoT.
7. Various types of sensors used with IoT.
8. Different applicability of IoT.

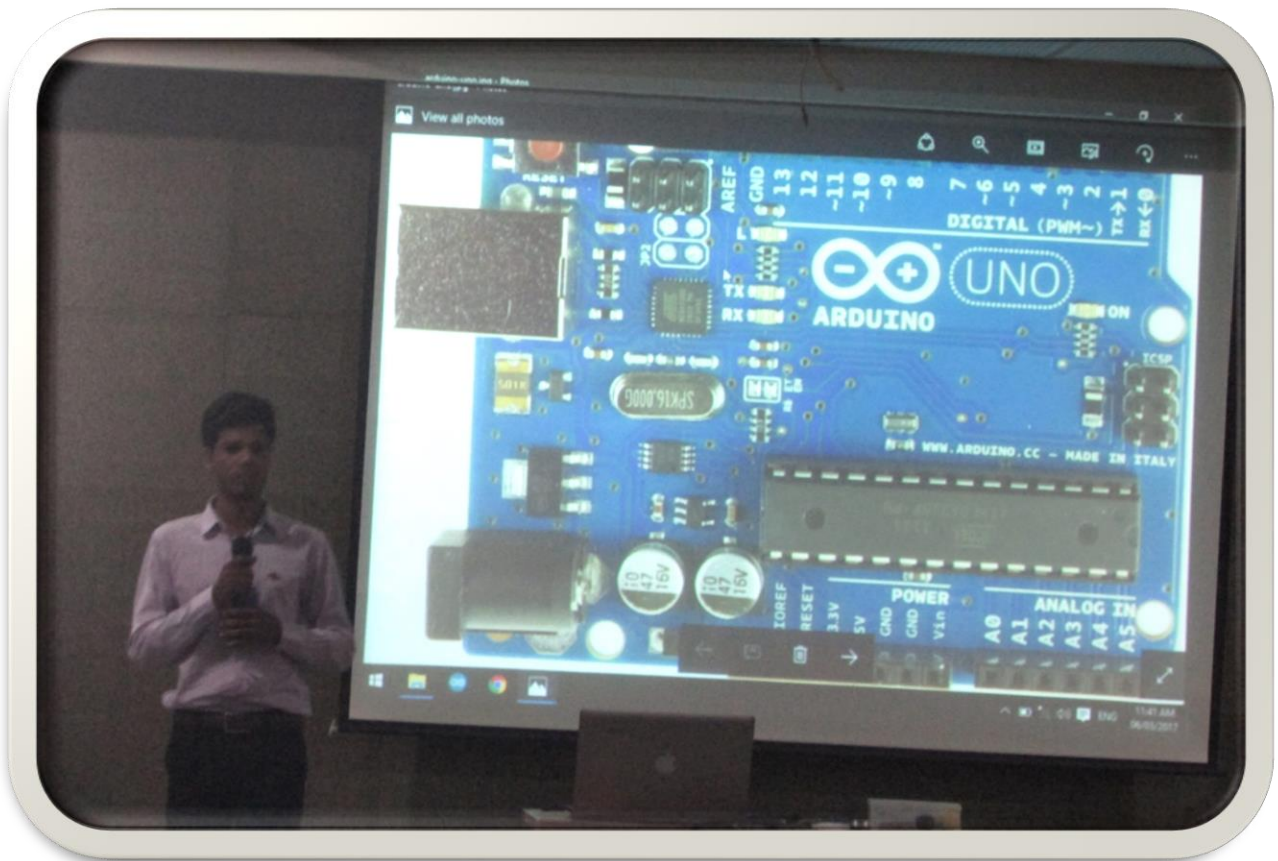


**Mr. Hardik Waghela Explaining IoT**



- **Session-2 Practical Session**

1. Introduction to Arduino UNO Microprocessor.
2. Introduction to IDE used to code Arduino UNO.
3. Practical of how to turn lights on or off based on light sensors.
4. Practical of how to turn AC on or off using Relay switch.
5. Practical of how to use ultra-sonic sensors.



**Arduino UNO Explanation**





**Students of GMIT attending Expert Talk on IOT**



## Hands on Session



Students of CE Dept. Clearing their doubts





## Valedictory

At the end of workshop, Prof. Amit Maru (Head of C.E. Department) has given very positive and energetic words to all students. And also encourage them to participate in various kinds of workshops for gaining extra knowledge. He has also discussed about scope of IoT and other Latest tools.



**Essential Detail:**

**Date and time of workshop: 06 March, 016, 1:15 A.M to 3:30P.M.**

**Venue:** Seminar Hall, Gyanmanjari Institute of Technology, Bhavnagar

**Duration:** 1 Day

**Expert:** Mr. Hardik Waghela, Mr. Paresh Sir

**Organization Name:** Tops Technology, Bhavnagar

**Beneficiary:** 2<sup>nd</sup> & 4<sup>th</sup> Semester Computer Dept. Students

**THANK  
YOU**