

# **REPORT**

**3-Days Workshop on Internet of Things (IoT)**

**From 11/11/2017 to 13/11/2017**

**Organizing Department -DESH Department**

**Conducted by –Technosript Solutions,Pune**



**Vishwakarma Institute of Technology**  
in association with  
**TechnoScripts**

**TechnoScripts**  
[An ISO 9001:2008 Certified Company]

**Internet of Things :**

- ✦ Introduction to IoT
- ✦ IOT basics concepts
- ✦ What is Internet of Things?
- ✦ Why IOT is important?
- ✦ Architecture of IOT
- ✦ How is IoT changing the world & Impact of IOT
- ✦ Applications and industry verticals
- ✦ Programming Languages used C & Linux
- ✦ Programming NodeMCU
- ✦ Application projects on IOT

**Projects:**

- ✦ Configuring Wi-Fi Interfacing & connect to internet
- ✦ Web server implementation on NodeMCU
- ✦ Get temperature on Server
- ✦ Monitoring nodes on IOT Platform
- ✦ Controlling Motor through Web Server
- ✦ Sending Auto message from IOT server
- ✦ Connecting NodeMCU using IOT
- ✦ Home automation using internet
- ✦ IOT based Smart farmer application
- ✦ Smart parking using NodeMCU
- ✦ Internet Controlled street Lights

Presents a  
**3 Days Workshop on**  
**INTERNET OF THINGS**

\*The participants will be taught how to build and operate simple projects during the course of the workshop

**Kit Details:**

NodeMCU board | USB cable  
Temperature Sensor  
Connecting wires  
LED | Switches | Relays

**Workshop Benefits:**

- \*Advance Wi-fi NodeMCU takeaway KIT for each group participant in a Group of 3.
- \*Software toolkit to each participant.
- \*"Certification of Participation" from TechnoScripts.
- \*Students performing well during workshop can get opportunity to do internship in our company and will get internship certificate
- \*20 % Discount to students on all our courses at our center

<b>Date</b> 11-13 Nov' 2017	<b>Venue</b> VIT, Bibwewadi, Pune
<b>Course Fees</b> Rs.2000 (incl. GST) Per Participant	<b>Co-ordinator</b> Prof. Debabrata Swain Prof. Jayesh Bhangadiya (Asst. Prof - DESH Dept) 8390635605

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A three day workshop on Internet of Things was conducted in Department Of Engineering Sciences and Humanities (DESH) during 11<sup>th</sup> November to 13<sup>th</sup> November 2017. Prof. Debabrata Swain from DESH along with a company Techno Script solutions conducted this Workshop. Total 27 students participated and successfully completed this workshop.

**Technical Summary**

**Kit details given to each group- Node Mcu Aurdino Board, Temperature humidity sensor, Proximity sensor, Connecting wires, Leds , Motor.**

**Day1: (11/11/2017)**

**Session1**

- Introduction in to Internet.
- What is Internet of Things?
- Introduction about Aurdino Microcontroller.
- Detail discussion about various pins of Aurdino Pin.

**Session2**

- Installation of Aurdino IDE.
- Installation of Various Drivers.
- Configuring Wi-Fi Interfacing & connect to internet
- Blinking of LED Program.

**Day2: (12/11/2017)**

**Session1**

- Web server implementation on NodeMCU
- Get temperature on Server
- Monitoring nodes on IOT Platform
- Controlling Motor through Web Server

### Session2

- Sending Auto message from IOT server
- Connecting NodeMCU using IOT
- Home automation using internet
- IOT based Smart farmer application
- Internet Controlled street Lights

Day3: (13/11/2017)

### Session1

- Idea given about various sensors used for IoT based Applications.
- Competition for giving novel idea for **Smart Parking Application** among all participants.
- Discussion done about the idea given by each group.
- By considering the cost involved, number of components to be used, usage of internet and space constraint the result has announced.
- Best solution given by 2 student of Q-div (1<sup>st</sup> year)
  1. Ali Asgar
  2. Ajinkya Patil
- The selected candidates will get summer internship in **TechnoScript Solutions** company.



Group Photo

