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

A three day workshop on Internet of Things was conducted in Department Of Engineering Sciences and Humanities (DESH) during 11th November to 13th 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^{st} year)
  1. Ali Asgar
  2. Ajinkya Patil
- The selected candidates will get summer internship in **TechnoScript Solutions** company.

Group Photo