Boot Camp on "IoT" for III Year
17-08-2018 &   18-08-2018

A REPORT ON IoT BOOTCAMP

Date: 20/08/2018

A Two Day Boot Camp on "Internet of Things" was organized for III year CSE students, on 18th and 19th August 2018 from 9:00a.m.to 4:00p.m. **Mr. Mahankali Surya Tej, IOT Engineer, Smart Bridge Solutions, Hyderabad,** has delivered a series of lectures on both the days.

The IoT Boot camp was jointly organized by Smart Bridge and GNITS-CSI student Chapter. This workshop covered the basics of Internet of Things (IoT) which are required for building applications and prototypes.

This workshop was conducted in 4 sessions on 2 days i.e. 18-08-18 and 19-08-18. It consisted of the following Theoretical and Practical Topics:

THEORITICAL CONCEPTS:

1. Introduction to IoT.

2. Unlocking massive potential of IoT

3. Arduino-UNO Board and its Pin Configurations

4. IBM Watson Cloud

5. Serial Communication Types

6. Sensors: LDR Sensor, Ultrasonic Sensor, Temperature and Humidity Sensor

7. Wi-Fi Module - Node MCU (ESP8266 - Module 12)

PRACTICAL SESSIONS:

1. Blinking of LEDs in various patterns.

2. Displaying the sensor readings for both LDR and Ultrasonic sensors.

3. Scan and Display the list of available Wifi's.

4. Connecting NODE-MCU to Wifi and uploading the sensor data to the Cloud.

5. Web-Application for Smart Home Automation System.

6. Web-Application and Android-Application for Smart Weather Monitoring.

The workshop covered various topics mentioned above and gave required knowledge in the field of IoT. It provided hands-on practice on the use of Arduino, Sensors and Cloud Platforms.

Total of **85** students attended the workshop. More than 90% of the students gave feedback as **"Good"** for theory and Lab sessions. The students expressed that they have gained much knowledge in very short period and are very much satisfied for the conduction of the workshop.

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