

Date: 27<sup>th</sup> February 2019

### Report and Outcomes of Workshop

As scheduled in the Department Academic plan, the workshop on IOT was conducted on 25<sup>th</sup> - 26<sup>th</sup> February 2019. Mr. Akhtar Hussain an expert from Industry was invited to share his knowledge with our students. A total number of 101 students from III year have participated in the Workshop. Mr. Akhtar Hussain has explained the basics of Arduino Programming with Arduino UNO and narrated to the audience how to use Think Speak. He gave a brief idea about Soil Moisture sensor, DHT sensor, Water flow meter, PIR sensor and LDR sensor. Thereafter, he gave Demos on the following:

- Demo on IOT based Smart Irrigation System - Design and Implementation
- Demo on IOT based Smart Water Monitoring System - Design and Implementation
- Demo on IOT based Smart Building Systems - Design and Implementation
- Demo on IOT based Automatic Street Lighting System - Design and Implementation
- Demo IOT Weather Station - Design and Implementation.

Finally students were asked to do the above demo projects on the final day of the workshop. The outcome of this workshop would enable the students to do their academic projects on IOT using Arduino.

Students were expected to get more demos with different sensors like gas sensor, humidity sensor etc. Students have suggested that the workshop should be conducted for more days, at least a week to learn IOT concepts effectively. The instructor presentation skills were not good.



**Action Plan :**

It was decided that in future, different sensor explanation will be included in the content of the workshop with at least one week and good instructor profile will be selected.

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**FACULTY INCHARGE**

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*B. RL* 27/2/19

**HEAD-CSE**