

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

The Department of **Electronics and Communication Engineering** conducted a **Value Added Course** on IOT with NodeMCU from **30/05/2022 to 04/06/2022**. The resource Organization was Technotran Electronic Solutions, Nellore. The II B.Tech students from the ECE department have attended this Value Added Course.

Total Participants: 208



Inauguration of the Event

The Resource persons from Organization shared their insights, real life scenarios, practical use cases and their solutions on the Internet of Things. The course started by providing real IoT experience at the registration desk itself – when students mobile flashed up with the workshop welcome screen on their arrival at the registration desk.

On the first day the Session started with keynote lecture on IoT and future of connected world. It also provided the insights of IoT applications for smart Transport, smart cities, Energy Conservation, Health and Fitness, smart phones, Home automation and Smart Agriculture.

The next session began with how the proliferation of connected devices and the Technology capabilities is transforming the industry with cloud data. He also discussed the various areas of Arduino Board analytics application, Installation of Arduino Software and functions.



Students participating in projects using IoT kit

In the later sessions, They discussed about NodeMCU and Interfacing LEDs, Switches to Arduino. Practiced LED Blinking, Switch Programs. They also discussed the topics Cloud Computing, Blynk app and Adafruit & IFTTT.



Students participating in projects using IoT kit

Later on the course was planned to provide hands on experience with IoT device and application. Students were introduced to the wifi concept from a programming point of view and its relevance to IoT device. All the students participated in projects such as Use NodeMCU to Upload free data from Environmental Sensors to Cloud Server and Receive Automatic Call / Email Notification on Mobile Phone using IFTTT.



Enlightening the Young Minds about the importance of IOT

Later on the course was planned to provide hands on experience with IOT with NodeMCU.