

## REPORT ON EMBEDDED IOT WORKSHOP

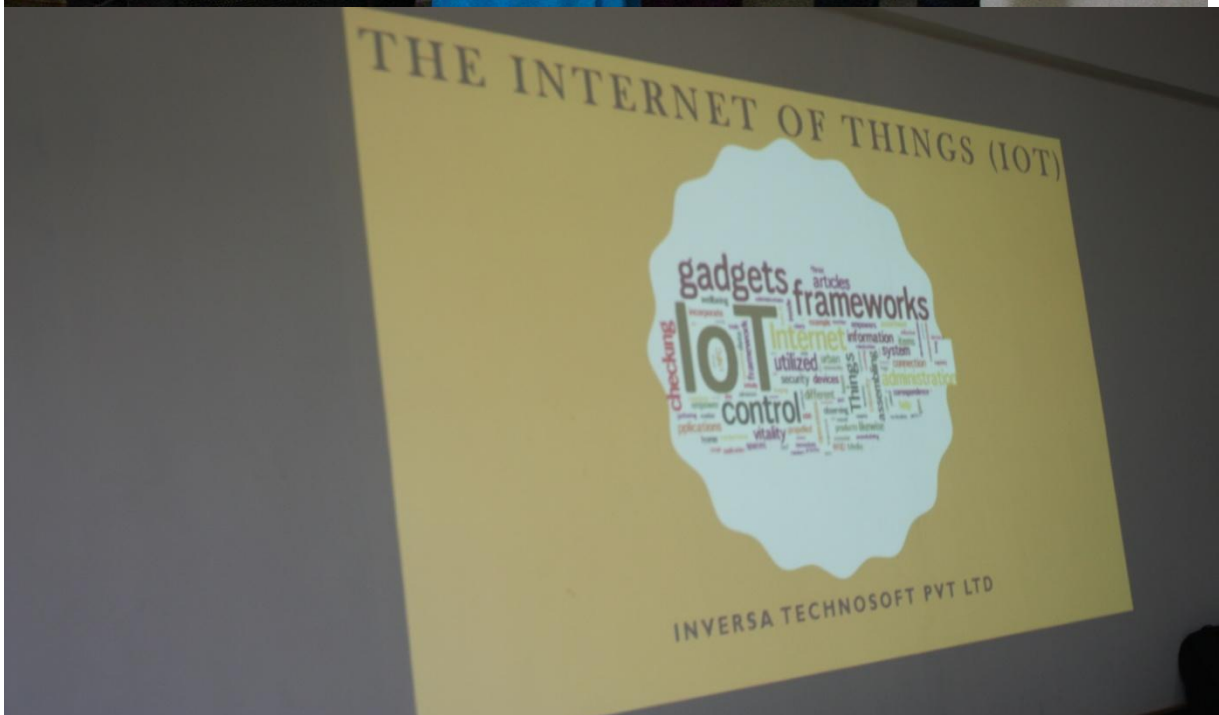
### INAUGURATION

The IETE “Embedded Iot” workshop was organised by Department of Telecommunication in association with Inversa Technosoft Pvt Ltd. The main objective of the workshop was to provide a basic idea and encouragement to students to work in the upcoming technology. There were 68 members partook in the workshop conducted on October 12<sup>th</sup> -14<sup>th</sup>.The workshop was inaugurated by Ms. Chanda V Reddy Head of the Department, Telecommunication.



## Day 1 -

The first day of the Workshop began with an introduction to Embedded systems, Iot, Esp 8266 module. The theory session was highly informative and it covered all the topics included from the basics. Internet of Things (IoT) is an ecosystem of connected physical objects that are accessible through the internet. The 'thing' in IoT could be a person with a heart monitor or an automobile with built-in-sensors, i.e. objects that have been assigned an IP address and have the ability to collect and transfer data over a network without manual assistance or intervention.



## Day 2 –



The second day of the workshop began with interfacing the Wi-fi module (ESP 8266) with different sensors LDR, RGB, ESDR and few more sensors. All these sensors were interfaced using Arduino board for which the Arduino code were taught simultaneously. By interfacing these sensors with Arduino and Wi-fi module we built line follower and obstacle remover bots by the end of the day. At the end of the day basics of HTML and CSS were taught to design a webpage (bootstrapping technique).

## Day 3 –

The third and the last day of the workshop began with the continuation of HTML bootstrapping technique. This bootstrapping was used in designing the webpage and controlling the bots which were prepared by each team for the bot race. The bot race was conducted in the last session of the last session the workshop. In which the students had to alter the bot and the code for them to win in the bot race.





Students benefited from workshop as follows:

- Exposure to open source platforms(Open source Hardware and Software)
- Students got an idea in selection of projects and also got to know about project planning.
- Hands on training sessions enabled the students to do projects around electronics on their own.

On the whole the workshop was educative on both theoretical as well as Practical aspects. The three days was very helpful to all those aspiring embedded engineers. Overall 68 students from TCE ,CS & ECE had involved and got hands on training from this workshop. Feedback were taken from participants.

The three day IETE workshop on Embedded IOT by INVERSA TECHNOLOGY successfully finished with 68 students of various departments. Certificates were distributed to all participants as well as Coordinators of IETE Committee.

Coordinators  
Dr.Manju.V.C

HOD  
Prof.Chanda.V.Reddy

PRINCIPAL  
Dr.T.V.Govindaraju