

## KARPAGAM ACADEMY OF HIGHER EDUCATION

*(Deemed to be University Established Under Section 3 Of UGC Act 1956)*

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### FACULTY OF ENGINEERING

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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### REPORT:

The workshop commenced with welcome speech by **Dr. N.Mohanasundram ( Professor & Head, CSE Department)** and welcomed the Expert and participant and explained the objectives and importance of the workshop.

**Mr. Mr.Manikandan** was an industry (Newareeliya Soft Tech) expert and shared his insights, real life scenarios, practical use cases and their solutions on Internet of Things and hands on development using various IoT kits. The lecture was focused on the key concepts related to the Internet of Things and the participants received a brief overview of the following topics: Introduction to the Internet of Things, The Arduino Platform, Reading from Sensors, Programming fundamentals, Arduino Programming & Interface of Sensors, Simple LED Program for Arduino, Integrating Sensors & Reading Environmental Physical Values. Finally **Ms.Abrami**, II CSE is given by vote of thanks.



### **Topics Covered:**

- ☐ Introduction to Robotics.
- ☐ Introduction to programming in embedded.
- ☐ Introduction to ADC.
- ☐ Introduction To Wifi.
- ☐ Introduction to ESP 8266 module.
- ☐ Introduction to GPRS.
- ☐ Introduction to TCP/IP

### **Hands on Training:**

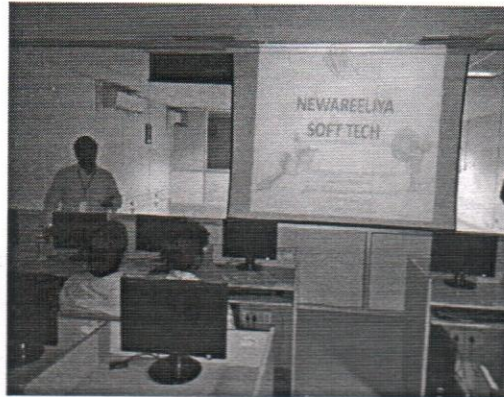
- ☐ **Practical 1** : Blinking of LED.
- ☐ **Practical 2** : Turn ON/OFF Buzzer at desired delay.
- ☐ **Practical 3** : Transferring data serially from PC to microcontroller.
- ☐ **Practical 4** : How to configure AT Commands.
- ☐ **Project 1** : Burning the program on Hardware with some different LED patterns.
- ☐ **Project 2** : Turn ON/Off AC appliances with MCU at some delay.
- ☐ **Project 3** : Display sensor data on Hyper Terminal
- ☐ **Project 4** : How to send message/call
- ☐ **Project 5** : Automatic Updates/uploads of sensor value on IP/web.



### **PHOTOS :**

National Level Workshop on "Internet of Things" by Mr.Manikandan,CEO, Newareeliya Soft Tech, on 16.02.2018.

**Lecture Delivered by our chief Guest Mr.Manikandan CEO, Newareeliya Soft Tech**



### **Hands on Training on IOT:**



### **CHEIF GUEST :**

Mr. Mr.Manikandan,is a CEO, Newareeliya Soft Tech.Pvt Ltd, good speaker and trainer. He did his Under Graduate in Bachelor of Engineering in Electronics and Communication Engineering. He worked in wipro , EC3, Indra Nagar, Electronics City Phase 1, Electronic City, Bengaluru, Karnataka for 2 years. he started the Newareeliya Soft Tech.Pvt Ltd in 2014. he is well trained profesional in R&D and product testing. So far, he has conducted more than 12 programs in the past 2 years on specialized topics on internet of things.