## **PROPOSED TRAINING SCHEDULE**

Timing Schedule		
Day 1	FN	Introduction  What is Internet of Things  IOT Layers Connectivity IOT Applications Home Transport Health Buildings & Cities Compound Applications  Kaniliarizing ESP8266 (Hands-on sessions starts here) Espressif ESP8266 Concept Family ESP Hardware-Features Familiarizing ESP8266-12 Trainer kits ESP Software Development ESP Standalone Programming Using Arduino ESP Plugin Installing Plugin Writing Sketch IOT Device Level Development GPIO Programming & Testing Serial Port programming
	AN	WiFi Basics  Concepts of Access Point, Station, SSID, Password, IP & Mac Address  Making your IOT Device as an Access Point & Connect your Smart phone to the AP  Making your IOT as a Station and connect it to your Smart Phone Hot Spot or WiFi Router  TCP/ IP Basics  IP Address  Concepts of Server, Client & Ports  HTTP Requests & Responses  Creating ESP as Server  Creating your IOT Server & Communicating with clients

	FN	Creating ESP as Client  Creating your IOT Client & Communicating with Local Server Thingspeak Online Server Uploading data to thingspeak Reading data from tingspeak
Day 2		Mini Project  Cloud based Temperature Logger (The Students should create the device as a client and upload data to online server)
	AN	Project      Home Automation (Students should develop a system to control devices in a room through local network as well as internet)

## **Proposed Program Highlights**

- Two day exclusive training on Internet of Things
- Most modern 32bitESP8266 WiFi enabled controller module
- Covers Device level to Cloud based Contents
- 80% of training will be hands-on/Practical sessions
- Specially designed IOT Trainer Kits
- Real life Home Automation Project
- Follow up trainings and continued support are offered even after current training, based on request
- 90 day free online support.

## **Contents of IOT Kit**

- ESP8266 Module (ESP12F)
- USB to TTL Converter
- ESP12F Development Board
- Home Automation Board
- Jumper Wires: Female to Female
- Power Supply Adaptor
- Driver Software
- Software Development IDE
- PowerPoint Presentation