IoT Training

Internet of Things : IOT Syllabus

- **Introduction to IoT**
- **IOT basic concepts**
- **Architecture of IOT**
- **How is IoT changing the world**
- **Applications and industry verticals**
- **IoT: Characteristics, Enabling Technologies, Technical Scope**
- **Arduino, Esp8266 , Raspberry Pi**
- **Board Features – History and Reception**
- **Hardware Description**
- **Functional Schematics**
- **Software and OS Options**

Course 1: Practical Electronics & Sensor development

- ✓ **Practical working with electronic components**
- ✓ **Resistor, Capacitor, Diodes, Transistor, Relay**
- ✓ **Designing of Logic gate and Power supply**
- ✓ **Development of sensor like light, surface, sound sensor, vibration sensor, temperature sensor,humidity, ultrasonic, infra, Radio, moisture etc.**

Course 2: ESE(Embedded System Engineer)

- ✓ **Designing of various sensor modules**
- ✓ **Power supply development**
- ✓ **Sensor modules interfacing with MCU**
- ✓ **Display devices & their interfacing with MCU**
- ✓ **Communication- wireless, wired, PC based**
- ✓ **IDE's hands on- Keil4, AVRstudio, microC**
- ✓ **Simulators- Proteus, AVR simulator**
- ✓ **Working Environment- Linux, windows**
- ✓ **Project development-as per your requirement**
- ✓ **Soft Skill Development**

Practical's:

NO 5/575 MPN TOWER , VELACHERY TO TAMBARAM MAIN ROAD , MEDAVAKKAM , CHENNAI - 600100
MOBILE NUMBER : 9962673502 | EMAIL: training@ajlontech.com | sales@ajlontech.com |
info@ajlontech.com
WEBSITE : www.ajlontech.com

- Porting Raspbian Wheezy Linux
- Linux Concepts
- Accessing the command line (terminal and desktop)
- Accessing and using manual pages
- Working with the command line and the shell
- Piping and redirection
- Linux OS
- Linux Commands
- Networking : Wired & Wireless
- File-sharing – Windows, Linux
- GPIO Interfacing
- GPIO's and Hardware Buses – I2C, SPI
- Input devices: Button, Buzzer, Touch, Display
- Sensor Interfacing : Gas sensors, Accelerometer, Display
- Wifi, Bluetooth Interfacing
- Raspberry Pi Camera Module Interfacing
- Applications: Imaging, Video Recording,
- Live video streaming using wi-fi, Video Surveillance
- Audio Video Movie Playback
- Text to speech conversion
- Gaming on the Raspberry Pi 2
- Creating Web server
- Connecting a USB webcam
- Video streaming on the RPi
- Bluetooth Interfacing
- Configuring Wi-Fi Interfacing
- Access the World Wide Web
- Hosting Web Page on Raspberry Pi
- Controlling Motor through Web Server
- Collecting, communicating and leveraging the data from connected devices
- Python Basics and programming
- using python on Raspberry Pi
- Thinger IOT platform
- IOT Dashboard
- Building Web Server Project
- ESP 8266 development platform
- Configuring WiFi ESP8266 module using AT commands
- Uploading data on cloud using WiFi ESP8266 module

- Hands on IBM Bluemix Server
- Nodered Tool for IBM
- IOT Based Application Project
- Mobile application connectivity for IOT

Duration: 1 Month

- Batches : Regular as well as Weekends

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- **fast track Batch option available.**

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