

TechnoScripts

Internet of Things (IOT)

IOT Course training in Pune :

We are introducing first of its kind “ Internet of Thing ” training and workshop in India. Our endeavour is to impart skills those are highly in demand and will become Industry’s new big thing in the coming years. So in this pursuit, we are offering this program which is the result of extensive research as well as high level consulting work done by our team in the past. This course gives initial practical and strategic understanding of vast world of “Internet of Things“which has already captured the imagination of all fortune 500 companies. So future belongs to a technology like “Internet of Things” as all research houses have term “Internet of Things” as a game changer.

This IOT course is meant to be an exhaustive introduction to the fascinating world of devices connected to each other through internet commonly referred to as Internet of Things. Separating the hype and reality, this course is designed to be a common practical meeting point for both manufacturing industry personnel as end users, as well as IT professionals, who are responsible for delivering innovative IT solutions. After completion of this training, you will have learnt key skills to implement your IoT ideas in hardware as well as software part and IOT application. This training is completely practical oriented & you can develop applications on your own after training.

Internet of Things: IOT Syllabus

- Introduction to IoT
- IOT basics concepts
- What is Internet of Things?
- Why IOT is important?
- Architecture of IOT

- How is IoT changing the world
- & Impact of IOT
- Applications and industry verticals
- IoT: Characteristics, Enabling Technologies, Technical Scope
- Raspberry Pi

- Raspberry Pi 2 – The “Rocket-In-A-Pocket” Board for IoT
- Board Features – History and Reception
- Hardware Description
- Functional Schematics
- Software and OS Options
- Programming Languages
 - C
 - C++
 - Python
- Embedded Linux
 - Introduction to Linux OS
 - OS Fundamentals
 - Linux Command line/Shell
- Hardware Platforms
 - Arduino
 - Raspberry PI
 - ESP 8266 wi-fi Module

Practical's:

- 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 Bus 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
 - Wired Connectivity
 - Ethernet
 - Serial Communications
 - Wireless Communication Protocols
 - Wi-Fi Communication
 - Use of RF & RFID
 - Zigbee Implementation (IEEE 802.15.4)
 - Use of Bluetooth or Bluetooth Low Energy
 - GSM Communication
 - 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
 - End to End Project implementation on Cloud Platform
 - Smart City Application on IOT Platform
- **Duration: 1.5 Month**
 - Batches : Regular as well as Weekends
 - Fast track Batch option available.

ADDRESS:

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