



INTERNET OF THINGS (IOT)

Vision & Introduction to IoT.

- Understanding of IoT Market prospective.
- Future Aspects of IoT.
- Real World IoT design Constrains, Industrial automation and commercial building Automation in IoT.
- Introduction to controlling devices
- Wide description about controlling devices.
- Input & Output peripherals in controlling devices.
- Resisters in controlling devices.
- Programming of controlling devices.

Kits Distribution

- Interfacing of peripherals with Arduino.
- Output devices interfacing with Arduino.
- Programming for LED interfacing with Arduino.

Practical: Different patterns of LED.

Relay Interfacing

- Introduction to relay.
- Types of relay and its working.

Introduction to ULN2803 IC.

- Interfacing between Arduino and ULN2803.



Project: Development of an Automation System using Arduino Development Board.

Serial communication

- UART in Arduino.
- Accessing internal UART.
- Transferring data serially from PC to Arduino.

Project: - Smart Automation using PC.

Introduction and interfacing of Wireless technology.

Practical: - Making Wi-Fi local server.

Practical: - Connecting Wi Fi with smart phone or Laptop.

Project: - Local network control office automation.

Introduction to Internet

- Introduction to TCIP
- Introduction to IP addressing and its different classes
- IP address distribution to PAN India

Practical: - Generating different class of IP

Practical: - Generating different IPs to client.

Generating access point using Wi Fi technology.

Word wide accessing and controlling of secure automation system.