

DAY 1

VISION & INTRODUCTION TO IOT.

- 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.

KIT DISTRIBUTION

PRACTICAL SESSION

- Interfacings of peripherals.
- Output devices interfacings.
- Programming for LED interfacings with controlling devices.

PRACTICAL SESSION Different patterns of LED.

RELAY INTERFACING

- Introduction to relay.
- Types of relay and itsworking.
- Introduction to ULN2803 IC.
- Interfacing between controller and ULN2803.

PROJECT Development of an automation system.

DAY 2

SERIAL COMMUNICATION

UART in microcontrollers.

Accessing internal UART.

Transferring data serially from PC to microcontroller.

PROJECT- SMART AUTOMATION USING PC.

Introduction and interfacing of Wi Fi 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.

Project: - World wide accessing and controlling of secure automation system.

