

DAY1:

IOT Embedded System

IOT

1. IOT-Introduction

- What is IOT?
- Various IOT Platforms
- Applications of IOT

2. Arduino

- Introduction of Arduino
- Various Microcontroller & Microprocessor
- LED interface with Arduino
- Traffic Light
- Buzzer
- Some basic Programs

DAY-2:

- Introduction of Sensors
- Types of Sensors
- Digital Sensors interface with Arduino
- IR Sensor
- PIR Sensor
- LDR Sensor

- Some basic Programs

DAY 3:

- Introduction of Analog Sensors
- Analog Sensors interface with Arduino
- Temperature Sensor
- Gas Sensor
- Soil Moisture Sensor
- Ultrasonic Sensor
- Heartbeat Sensor
- Some Programs

DAY 4:

- IOT Protocols
- Introduction of Communication Protocols
- Interface with Arduino
- Bluetooth
- WiFi
- GSM
- Introduction of Serial Communication
- Some Programs

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DAY 5:

- Introduction of Display
- Display Interface with Arduino
- LCD
- Introduction of NodeMCU(ESP8266)
- Introduction of Cloud Platform
- Thingspeak
- Create Application using IOT
- Like Healthcare, Agricultural, Automation System

Thanks & Regards,
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