



IOT Course Content

Session 1

- ✓ What is IOT?
- ✓ Getting started with IoT
- ✓ Introduction to Internet of Things (IoT)
- ✓ Why IoT?
- ✓ How IoT is changing the world

Session 2

1. Arduino UNO

- ✓ Learning Arduino
- ✓ Basic Features of Arduino

- ✓ Hand Shake with Arduino UNO
- ✓ Developing the environment
- ✓ *UNO*: Overview about board
- ✓ Popularity & scope

2. Microcontroller: Heart of Arduino

- ✓ What is Microcontroller
- ✓ Briefing Atmel Atmega328P
- ✓ *Atmega 328P*: PIN Diagram
- ✓ Introduction to features

- ✓ Learn to Program Display Device
 - i. LED
 - ii. LCD
 - iii. Controlling Motors

3. LED

- ✓ What is LED Stands for?
- ✓ *Working*: Going its details
- ✓ Types
- ✓ PWM Programming
- ✓ Making circuits & glowing patterns



4. Creating Robot: Running Motors

- ✓ What are Motors
- ✓ Different types of motors
- ✓ *Motor Driver IC:L293D*
- ✓ PIN Diagram
- ✓ H-Bridge
- ✓ Interfacing L293D with Arduino UNO
- ✓ **Coding**

Session 3

- ✓ Understanding the Networks
- ✓ Understanding IP Address
- ✓ Understanding tool “Advanced IP Scanner”
- ✓ Basic Syntax for creating a Web Page

Session 4

Project 1. Creating a webpage to glow an LED

Project 2. Home Automation System (Controlling Electronic Gadgets through a webpage)

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