CREDO SYSTEMZ
Simplifying IT

INTERNET OF THINGS TRAINING

SECTION 1 – Introduction to Internet of Things

- ➢ Basics of Internet
- ➢ What is Internet of Things
- ➢ Technology behind Internet of Things
- ➢ Benefits of Internet of Things
- ➢ Use of Internet of Things
- ➢ Internet of Things Applications & Examples

SECTION 2 – Thing in Internet of Things

- ➢ What is Thing?
- ➢ Components of Internet of Things
    1. The Thing
    2. The Local Network
    3. The Internet
    4. The Cloud
- ➢ Explanation about Microcontrollers
- ➢ Study about Analog and Digital sensors
- ➢ Input and Output of Internet of Things

SECTION 3 - Embedded Systems

- ➢ Basics of Embedded System
- ➢ Components of Embedded Systems
- ➢ Embedded Infrastructure and Devices in IoT
- ➢ Interaction of Embedded Systems with physical world
- ➢ Study about next generation Embedded system hardware, software and tools

SECTION 4 – Sensors in IoT

- ➢ Sensors and Demystified
- ➢ Specification of Sensors
- ➢ Benefits and Usage of Sensors
- ➢ Types of Sensors in IoT
- ➢ Important Sensors used in IoT

SECTION 5 – Integrated Peripherals in IoT

- ➢ Study about Integrated Peripherals
- ➢ IoT Communication standards and protocols
- ➢ Communication protocols in IoT
- ➢ IoT Standards & Protocols
- ➢ Serial and Parallel Communication explained

SECTION 6 – Internet Protocol Explanation

- ➢ What is Internet Protocol?
- ➢ Types of Internet Protocols
- ➢ Types of Internet Topology
- ➢ IPV4 and IPV6 Protocols
- ➢ Difference between IPV4 and IPV6

SECTION 7 – Introduction to Embedded Programming

- ➢ Basics of Embedded C
- ➢ Simple Program Execution
- ➢ Introduction to Arduino IDE, Preparation, Integration & Programming
- ➢ Integration with Sensors and Actuators with Micro Controller
- ➢ Simple Project
- ➢ Task 1: Own Project

SECTION 8 – Introduction to IoT using Arduino or Raspberry Pi

- ➢ Introduction to IoT Platforms – AWS, Azure, Boston, Kaa, Thingspeak, Thingworks and etc
- ➢ Study about Arduino board and sensors
- ➢ Arduino IoT platform
- ➢ Programming and Integration
- ➢ Internet of Things Project with Arduino
- ➢ Task2: Own Project- IoT Enabled

SECTION 9 – Web + Arduino = Webduino

- ➢ Connecting Arduino to the Web Development- Open Source IoT platforms
- ➢ Components of Arduino and circuits
- ➢ HTTP, MQTT, TCP/IP and Elements of HTML
- ➢ Controlling/ Monitoring sensors using web page links
- ➢ Task3: Own Project

Contact Info

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🌐 Know more about **IOT TRAINING**

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