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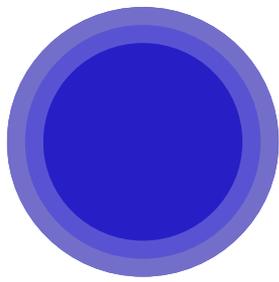
INTERNET OF THINGS (IOT) TRAINING & INTERNSHIP

A comprehensive 1-month journey
from basics to deployment.

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CONTENT

IoT Fundamentals & Electronics

01

- Introduction to IoT Architecture, Sensors & Actuators
- Basic Electronics: Components, Circuits & Breadboarding
- Task: Identify IoT devices & build a simple LED circuit

Arduino Programming & Interfacing

02

- Arduino IDE Setup, Code Structure & Digital/Analog I/O
- Interfacing Sensors (LDR, Temp) with Microcontrollers
- Task: Build an Automatic Street Light system

Connectivity & The Cloud (NodeMCU)

03

- Introduction to ESP8266/NodeMCU & WiFi Connection
- Sending Data via HTTP/MQTT Protocols to the Cloud
- Task: Connect a sensor to WiFi and send data online

IoT Dashboards & Mobile Apps

04

- Cloud Platforms (ThingSpeak/Firebase) & Data Visualization
- Controlling Hardware via Mobile Apps (Blynk Setup)
- Task: Create a Live Sensor Dashboard or Mobile Switch

Automation, Control & Security

05

- Home Automation Concepts & Remote Device Control
- IoT Network Security, Common Vulnerabilities & Privacy
- Task: specific Smart Home logic & secure the connection

Internship Project & Certification

06

- End-to-End Build: Hardware + Firmware + Cloud Integration
- Documentation, GitHub Upload & Final Presentation
- Task: Submit Final Project (e.g., Smart Irrigation or Weather Station)

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