WORKSHOPS

Internet Of Things

Step in to the world of Internet of Things

Who we are

We are Learn and Build (LnB), an Employee Tech vertical by TechieNest Pvt. Ltd. Furthering our 10+ years of strong legacy and training over 250K students from 350+ premium institutions including IIT's & NIT's. LnB aims at bridging the future skills gap between Industry and learners.

Our Big Idea

To inspire learners to LEARN and BUILD their own ideas from scratch after completing the workshop. We don't simply want our students to understand the technologies; besides, we want them to put their application in solving real-world problems so that they can think and implement big.

Curriculum

1. Introductory & Theoretical session

- ❖ Introduction to Embedded Systems & IOT.
- ❖ Future aspects.
- ❖ Wide description about Arduino & ESP8266
- ❖ Software installation
- ❖ Input & Output peripherals in Arduino & ESP8266.
- ❖ Programming of Arduino & ESP8266

2. Practical session

- ❖ Interfacings of peripherals
- ❖ Output devices interfacings
- ❖ Programming for LED interfacings with Arduino
- ❖ LED blinking programming

3. Introduction to ESP8266

- ❖ Installing & Programming ESP8266 boards
- ❖ LED blinking programming

4. Sensor Interfacing

- ❖ Introduction to IR sensor

    Interfacing of IR sensor through ESP8266

    Introduction and working of LM358 comparator IC

    Project – Automatic Day/Night Device Controlling

❖ Introduction to DHT11

Interfacing of DHT11 sensor through ESP8266

Project - Temperature and Humidity Monitoring System

5. Relay Interfacing

❖ Working of Relay

❖ Controlling Relay as a switch using ESP8266

Project - Computer controlled home appliance

6. Connecting Node-MCU with ThingSpeak

❖ Transmitting Temperature sensor data over thingspeak

❖ Receiving data from ThingSpeak & Controlling Relay.

Project - Communication with IoT server

Major Project - Build Voice Controlled Home Automation using IoT

Program Outcomes

❖ Learning to build entire product life cycle from scratch

❖ Build your IoT applications

❖ Learning most advanced tools used in the IoT industry currently

❖ Get your First Practical Hands-on IoT Certification

❖ Learning how the knowledge can be used for Research
and Development.

Contact Us

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