

# Embedded System With IoT

(4 MONTHS)

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## Interactive Learning

Embedded System  
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# EMBEDDED SYSTEM WITH IOT

## Skills

»» Programming Languages - C & Python

»» Embedded C

»» Development board programming

»» Microcontroller

»» Hardware interfacing

»» Fundamentals of Electronics

»» IoT Cloud

»» Wired & Wireless Protocols

»» IoT end device Interfacing

»» Circuit Simulation

»» IoT Webserver

## Topics

## Syllabus

### C Programming

- Fundamentals of programming
- Variable & keywords
- Input & Output Commands
- Conditional statement
- Loops
- Array & string
- Structure & Pointers

### Microcontroller & Embedded C

- Introduction to Microcontrollers
- Features of AtMega16
- Timers & Counters
- Pwm
- ADC
- Interrupt
- Wired protocols - UART , SPI, I2C
- Hardware interfacing - Led , Switch , LCD, seven segment display, Motors,Sensors

### Internet of Things

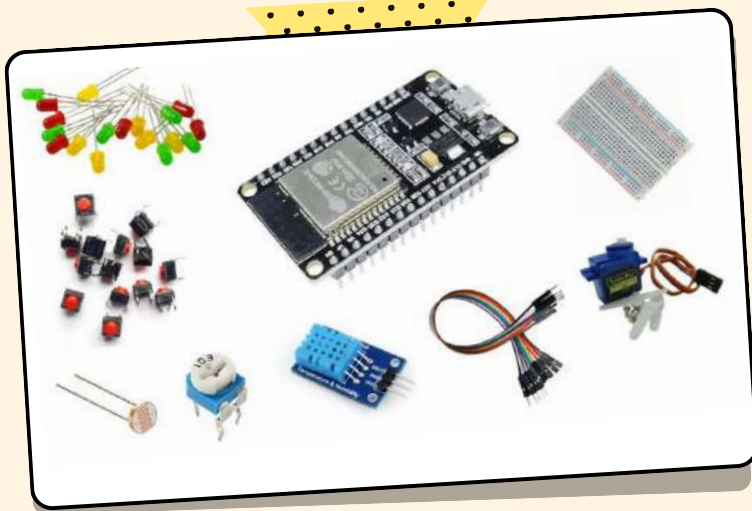
- Introduction to Ide
- Features of ESP32
- Web Server
- Interfacing of IoT devices
- IoT cloud
- wireless protocols - Bluetooth & Wifi, Ble
- IoT servers & MQTT

### Python Programming

- Fundamentals of Programming
- loops & Logical statement
- Functions
- Object Oriented Programming

# LivetechINDIA - Explore kit (Free)

SEE WHAT'S INSIDE THE KIT



✓ ESP 32

✓ Leds

✓ Buttons

✓ Potentiometer

✓ Temperature & humidity sensor

✓ Light sensor

✓ Breadboard

✓ Jumper wire

✓ Servo motor