



AICTE APPROVED

SIRINTEL TECHNOLOGIES PRIVATE LIMITED

Address: 2696, Tanvi's, 2nd floor, Mama's Joint Road, 2nd Main 3rd Cross Rd, above Peter England showroom, MCC B Block, Davanagere, Karnataka 577004



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Ref. No. - SIRINTEL/TECH-DEPT/INPLN/2023/1101

AICTE APPROVED ISO STANDARD CERTIFICATION EMBEDDED SYTEM AND IOT USING BLYNK CLOUD

1ST WEEK

1. Basics of Arduino software.
 - a. Basic C++ Coding in Arduino.
 - b. Examples & Library usage.
 - c. Board Manager and Port Selection.
2. Circuit connection basics.
 - a. Circuit Simulation software.
 - b. Basic Bread Board Usage.
 - c. Coding and Serial Monitoring.
3. Simulation of Sensor and working
 - a. Sensor Simulation and Coding.
 - b. Understanding Sensor Concept.
 - c. Sensor Serial Monitoring.

2ND WEEK & 3RD WEEK

1. Real time Project Development.
 - a. NodeMCU ESP8266 Usage
 - b. IOT Blynk Simulation
 - c. Realtime Circuit Connection Practice.
 - e. Python Signal to Micro-Controllers

4TH WEEK

1. Mini Projects Guidance.
 - a. Development of Mini Projects
 - b. Mobile IOT Blynk Simulation & Monitoring
 - c. Live Data Monitoring and Control.

COMPONENTS:

- | | | |
|---------------------|---|-------------------------------|
| 1. Nodemcu Esp8266. | 4. IR Sensor and Moisture Sensor. | 10. SW-420-Vibration Sensor. |
| 2. Jumper Wires | 5. Motor and Servo Motor. | 11. HC-06 Bluetooth and GPS. |
| a. Male to Male. | 6. DHT11 Temperature & Humidity sensor. | 12. Ultrasonic Sensor, & PIR. |
| b. Male to Female. | 7. Pulse Sensor-Heart Beat Monitoring. | 13. LED, Resistor & DC Motor |
| c. Female to Female | 8. LDR-Light Sensor.. | 13. 12v-1Amp Adapter |
| 3. BreadBoard. | 9. MQ3-Smoke, Current, Voltage Sensor. | 14. 12V Power Supply Module |

Note: Hardwares will be Given to Students during Daily classes and taken back after Completion of the same day Classes

SIRINTEL TECHNOLOGIES

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