



Embedded Circuit Programming

Beginners

Sessions - 12

- Day 1 1 Hour
✓ Introduction of Robotics and Tinker cad
- Day 2 1 Hour
✓ Basic Electronic Component
- Day 3 1 Hour
✓ Introduction of Arduino
- Day 4 1 Hour
✓ Bread Board and Use
- Day 5 1 Hour
✓ LED Blink
- Day 6 1 Hour
✓ Embedded C and Control Statement
- Day 7 1 Hour
✓ Control Statement Continued
- Day 8 1 Hour
✓ Functions in Embedded C
- Day 9 1 Hour
✓ PWM Pins and LED Brightness Control
- Day 10 1 Hour
✓ Various Types of Interface Sensor and Use
- Day 11 1 Hour
✓ Ultrasonic Sensor
- Day 12 1 Hour
✓ Project-Near Object Detector or Any Project

Intermediate

Sessions - 12

- Day 1 1 Hour
✓ Introduction of Arduino and Sensors
- Day 2 1 Hour
✓ Advance Electronic Component
- Day 3 1 Hour
✓ Electronic Component Continued (Resistor, Capacitor, Diode etc.)
- Day 4 1 Hour
✓ Analog Pins and Analog Signal
- Day 5 1 Hour
✓ Using potentiometer control motor speed
- Day 6 1 Hour
✓ Photoresistor and its Uses
- Day 7 1 Hour
✓ Pull-up Resistor
- Day 8 1 Hour
✓ Continued Pull-up Resistor
- Day 9 1 Hour
✓ Servo motors and its uses
- Day 10 1 Hour
✓ Control Servo Motor Using Potentiometer Motor
- Day 11 1 Hour
✓ 7 Segment Display
- Day 12 1 Hour
✓ Project – Temperature Controlled Fan

Advanced

Sessions - 12

- Day 1 1 Hour
✓ Introduction to Advance Course of Arduino
- Day 2 1 Hour
✓ Number System
- Day 3 1 Hour
✓ Communication (UART, SPI, I2C)
- Day 4 1 Hour
✓ Continued Communication
- Day 5 1 Hour
✓ Transistors
- Day 6 1 Hour
✓ Voltage Regulator
- Day 7 1 Hour
✓ Timer
- Day 8 1 Hour
✓ Interrupts
- Day 9 1 Hour
✓ Continued interrupts
- Day 10 1 Hour
✓ IR sensor, IR remote
- Day 11 1 Hour
✓ Keypad
- Day 12 1 Hour
✓ Project – Obstacle Avoiding Robot