



TECHNOMATE EDUBOTICS PVT.LTD

Bluetooth,Vision and Speech Robotics:-

8hours

Day 1 (Session 1)

Introduction to Microcontrollers

- Difference between Microcontroller and Microprocessor.
- Microcontroller Architecture and Interfacing.
- How can we use Microcontroller in our Own Circuits?

Programming Languages

- Introduction to Programming Languages- Assembly vs Embedded C.
- Microcontroller Programming using 'Embedded C'.

Basics of Robotics:-

- Sensors
- Interfacing of Sensors
- Motors and Controlling Circuit
- Interfacing of Motors

Introduction to Programming Languages

- Programming Languages- Assembly vs Embedded C.
- Microcontroller Programming using 'Embedded C'.

Introduction to Wireless System

- What is Wireless System
- Working of Wireless System
- Different Wireless Modules
- Introduction to Bluetooth Technology
- Working with Bluetooth Module (HC-05)
- Application of Bluetooth Technology in Robotics
- Working of Android App and Robotics.

Installation of Software and Debugging

- Writing your First 'Embedded C' Program
- Program Compilation and Debugging.
- Loading Compiled 'C' Program into Microcontroller.

Day 2 (Session 1)

Android App Development:

- Basics of Android App Development.
- Software platform to develop the app.
- Make an basic App in .apk format.

Motors Interface

- Motor
- Control of Motors Using Android App

Home Automation System:-

- Relay and Working of Relay Circuits.
- Making of a Bluetooth controlled Home Automation System using Android App

Day 2 (Session 2)

Servo Motor Interfacing:-

- Introduction to Servo Motor and its Rotation Angles
- Interfacing of Servo Motor using Mobile App.

Robotics and Camera Interface:-

- How to interface camera remotely using IP address and operate remotely using android phone
- Interfacing camera and record things in monitor
- Make a Spy System.

Speech Recognition and Robotics:-

- Interfacing of Voice Recognition Software with Bluetooth and microcontroller.
- Make a voice assistant controlled System Using Android App.

.....**Certificate Distribution**.....