2 Days workshop on Multi Botics

MultiBotics workshop is based upon intelligent Autonomous , microcontroller based with multiple sensor robots. This workshop is dedicated to clear the basic concept of electronic & electrical components. In this workshop student will make their Self Brain Robot which will do various activities like:

Line Follower Robot

Obstacle sensing & avoidance

Voice Controlled Robot

Android App Controlled Robot

Topics to be covered in Workshop

Introduction

Starting with embedded systems

AVR Microcontroller Programming

Arduino jargon and terms

Arduino Basics

Arduino Architecture

Arduino board layout. What are the resources available

H-Bridge

Bluetooth Module

DC Geared Motors

IR-Sensor

Programming fundamentals (C language) Robot Assembling

Development & Testing on Arduino Board

Example 1: Simple LED Program

Example 2: LED Blinking

Example 3: Interfacing IR Sensor with Arduino

Robot 1: Line Follower Robot

Robot 2: Obstacle Avoider Robot

Robot 3: Android App Based Controlled Robot

Robot 4: Voice Controlled Robot.

Duration: The duration of this workshop will be 2 consecutive days, with eight hour session each day in a total of 14-16 hours properly divided into theory and hands on sessions.

Certification Policy:
Certificate of Merit for all the workshop participants from Indian Institute of Professional Trainings.
At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with Certificate of Excellence'.
Certificate of Coordination for the coordinators of the campus workshops.

Eligibility: There are no prerequisites. Anyone interested, can join this workshop.

Registration Fees: Rs. 1550/-(inclusive of all Taxes) per participant.

Thanks and Regards