



## OVERVIEW: Hands-On-Training Experience in Robotics

1. Introduction to Robotics
2. Electronics
  - Resistors, Capacitors, Diodes, Transistor as a switch
  - Op Amplifier Hands on LM324 OP AMP IC, H-Bridge L293D
  - Hands on soldering on PCB
3. Mechanical Aspects
  - Introduction to Mechanical parts of Robot, Line Follower
4. Hands on Programming PIC MCU using MPLAB.
  - Interfacing with DC geared motor
  - Interfacing with Servo motor.
  - Controlling Speed and direction of the motor
5. Batteries and Power supply systems
6. Interfacing different type of Sensors
  - IR Sensor, Proximity Sensors, LDR, Temperature Sensors
9. Project Work:
  - Mechanical Construction of Robot.
  - Soldering of components on PCB.
  - Interfacing MCU with IR and DC geared motor using MPLAB.
  - Line Follower Robot/PIC and Place Robot

### Note:-

1. Course fee is Rs 9,500 + 10.3% tax = Rs 10,479 (including registration, training, Reference CD and cost of Robo)
2. Timing: - 10:30-5.30PM.
3. Students will receive certificates from EFY Enterprises on successful completion of class.
4. At the end of the course a CD will be provided with the information about Reference manual, Data manual and necessary details.