

Foundation Course

Session : 1 Basics of Electronics

➤ Resistor, Disc capacitor, Electrolytic capacitor, LED, Crystal oscillator, LCD Display, 7-segment display, Matrix keypad, DC Motor & Driver, Stepper Motor & Driver, DTMF Decoder, IR LED, IR sensor, IR Photo diode, 4 bit Encoder/ Decoder and wireless Session : : etc.

Session : 2 Introduction

- Bread Board and testing Standard testing procedure
 1. Power Supply
 2. Motor Driver
 3. LDR
 4. 555 Timer

Session : 3 Circuit Simulation

- Introduction of PROTEUS
- Familiarization with environment and tools
- Basics of Schematic Entry
- Study of in-built instruments
- Power Supply with simulation

Session : 4 PCB Designing

- Introduction to PCB technologies
- Familiarization with through hole components and packaging
- Familiarization with SMD components and packaging
- Schematic Drawing
- Board Layout

Session : 5 Projects

- Work on Projects

Session : 6 Introduction

- Introduction to MCUs 8051, PIC, AVR. Architecture of 8051
- Applications of embedded systems

Session : 7 Embedded C

- Introduction to embedded C
- Variable Types and Constants
- Operators, Flow Control
- Functions, Arrays
- Introduction to compiler and IDE
- Uploading of programs

Session : 8 Hardware interfacing

- LED Interfacing

Duration

Duration: 15 Days

Benefits

10% discount on any RoboZZ Lab's product

Group discount of 10% on a batch of 10 students and above.