

## Basic Robotics

### Session : 1 Introduction to Robotics

- Terminology involved in robotics
- History of Robotics

### Session : 2 Basics of Electronics & Mechanics

- Designing of Power Supplies
- Study Of Multimeter
- Different type of motors
- Different Drives
- Different type of gears & calculation

### Session : 3 Study of Sensors

- Project:
  - ✓ Obstacle Avoiding Robot
  - ✓ Edge Avoiding Robot

### Session : 4 Study of color sensor

- Project:
  - ✓ Line Following Robot

### Session : 5 Study of DTMF

- Project:
  - ✓ Cell Phone Controlled Robot

### Session : 6 PCB Designing

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

### Session : 7 PCB Fabrication - Live Demo

#### 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.