

Arduino Training

1. Basic Electronics

- 1.1 AC and DC**
- 1.2 Circuits (Open and Closed)**
- 1.3 Resistance**
- 1.4 Serial Vs. Parallel**
- 1.5 Resistors**
- 1.6 Capacitors**
- 1.7 Diodes**
- 1.8 Transistors**
- 1.9 LED's**

2. Programming and Logic

- 2.1 Functions**
- 2.2 Variables**
- 2.3 Structure**
- 2.4 Libraries**

3. Sensors and Development Tools

- 3.1 PIR Motion Sensors**
- 3.2 Ultrasonic Sensors**
- 3.3 Smoke Sensors**
- 3.4 Temperature and Humidity Sensors**
- 3.5 Bluetooth Module**
- 3.6 IoT Module (NodeMCU)**

4. Fundamentals of Linux

- 4.1 Introduction**
- 4.2 Basics of Linux**
- 4.3 Installation of Linux**
- 4.4 System Administration**
- 4.5 User Management**