

## EXPERIMENT NO. - 0

**Aim:** Study of different electronic component.

**Equipment:** Basic electronic component such as Resistors, Capacitors etc.

**Theory:** Electronic components are basic discrete device in any electronic system. These components are basic elements that are used to design electrical and electronic circuits.

**Active Components:** These component are used to amplify electrical signals to generate electric power. The functioning of these components can be done like an AC circuit within electronic devices to protect from voltage and enhanced power. An active component executes its function because it is power-driven through an electricity source.

Some of these components are semiconductor like diodes, transistor, integrated circuit, various display like LCD, LED, CRT's, and power sources like batteries, PV cells etc.

**Passive Component:** These types of component cannot use much energy into the electronic circuit because they don't rely on a power source. Eg are - Resistors, Variable Resistor, Capacitors, Inductors