

## **1 EXPERIMENT 2: Kirchhoff's Laws**

### **1.1 Aim**

To verify Kirchhoff's voltage and current laws.

### **1.2 Theoretical Background**

Kirchhoff's current law rely on the principle of conservation of charge and the voltage law rely on the principle of conservation of energy and are particularly useful in:

- Determining the equivalent resistance of a complicated network.
- Calculating the currents flowing in the various conductors.

#### **A) Voltage Law:**

Kirchhoff's voltage law states that the algebraic sum of all the voltages in a closed linear circuit is zero.

#### **B) Current Law:**

Kirchhoff's Current law states that the algebraic sum of currents entering a junction is equal to algebraic sum of currents leaving the same junction.

### **1.3 Equipment required**

1. Multisim Software

### **1.4 Procedure**

#### **1.4.1 Voltage Law**

Convention of current flow is assumed as from positive voltage to negative. Study the diagram shown in Figure 1.

- Draw the circuit in Multisim as shown in the diagram.
- Switch on the power supply
- Adjust voltage to 10V.
- Measure voltages across R1 and R2 using same voltmeter.
- Record the observations in Table 2.1.

# Grade 1 experiment 2

**F Rizvi**



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