

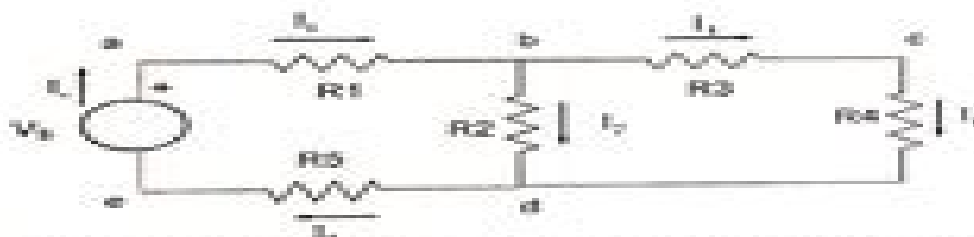
EXPERIMENT No.1

Aim: To verify Kirchhoff Voltage Law and Kirchhoff Current Law using hardware and Proteus software

Apparatus required:

S. No.	Items	Specifications	Quantity
1	DC Voltage source	0-20V	01
2	Resistors	1-2 ohms	05
3	Ammeter	Digital type	01
4	Voltmeter	Digital type	01
5	Connecting wires	As per requirements	

1. Kirchhoff's Voltage Law states that the algebraic sum of all the voltages around any closed path (loop or mesh) is zero.



Applying Kirchhoff's voltage law to the first and the second loops in the circuit shown in Figure yields:

$$\text{Loop 1: } -V_s + V_1 + V_2 + V_5 = 0 \quad (1a)$$

$$\text{Loop 2: } -V_2 + V_3 + V_4 = 0 \quad (1b)$$

2. Kirchhoff's Current Law states that the algebraic sum of all the currents at any node is zero.

Applying Kirchhoff's current law to the first four nodes in the circuit shown in Figure yields the following equations:

$$\text{Node a: } -I_5 + I_1 = 0 \quad (2a)$$

$$\text{Node b: } -I_1 + I_2 + I_3 = 0 \quad (2b)$$

$$\text{Node c: } -I_3 + I_4 = 0 \quad (2c)$$

$$\text{Node d: } -I_2 - I_4 + I_5 = 0 \quad (2d)$$

Engineering Diploma Lab Manuals For Ece

Ying-Ying Zheng



Engineering Diploma Lab Manuals For Ece:

Reviewing **Engineering Diploma Lab Manuals For Ece**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Engineering Diploma Lab Manuals For Ece**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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