



EXPERIMENT NO:	3
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PROGRAMME:	Electrical Circuit
SUBJECT:	Electrical Circuit lab
COURSEWORK TITLE:	Ohm's Law

3.1. Objects:

• To get familiar with Ohm's law implementation in electric circuits, moreover, voltage-current measurements, network reduction, transformation and power supplied and consumed calculations are among other electrical engineering principles a student should acquire.

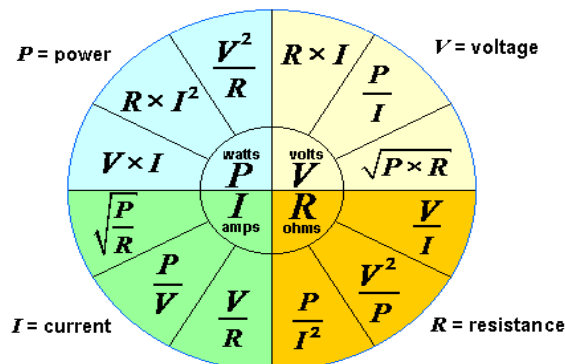
3.2. Apparatus:

- Resistors (different ratings)
- (D.C) power supply
- Measuring instruments (voltmeter, ammeter and ohmmeter)
- Connecting wires and board.

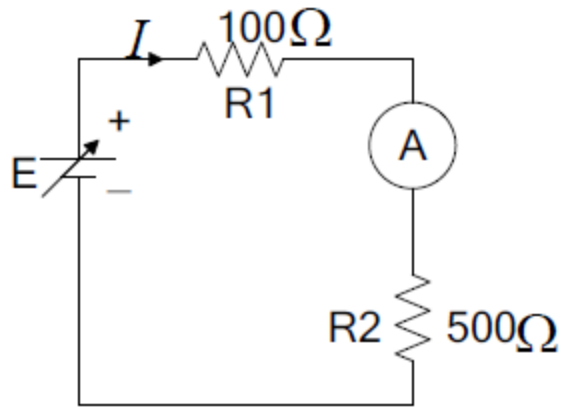
3.3. Theory :

In 1826 George Ohm published a paper, in which his measurements of electricity were summarized in a simple relation between current and voltage, using a constant that we call the resistance of the circuit.

This figure shows Ohm's Laws:



E(volts)	Current (mA)
0	
2	
4	
6	
8	
10	



R2 (Ω)	Current (mA)
100	
200	
300	
400	
500	

