

Unit - I

Chapter 1 : DC Circuits 1-1 to 1-28

Syllabus : Idea of electric potential, EMF, Current, Power and Energy. Introduction of Resistor, Inductor and Capacitor, Effect of temperature on resistance of conductor. **Ohm's law** : Applications and Limitations, Kirchhoff's voltage law and Kirchhoff's current law, **Types of connections** : Series and Parallel connections of resistors, **Battery** : Concept of cell and Battery, Rating of battery, Series and Parallel connection of batteries, Applications.

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