

CHAPTER – 1

FUNDAMENTALS OF ELECTRICITY

Topics:

- 1. FUNDAMENTALS OF ELECTRICITY 4 Hrs**
 - 1.1 Current, (AC and DC Supply) voltage and resistance, their units, single phase and three phase supply
 - 1.2 Ohms law, simple calculations
 - 1.3 Laws of resistance, simple calculations
 - 1.4 Combination of resistances, simple calculations, capacitors and their combinations
 - 1.5 Electrical and mechanical power, their conversion, units, horse power
 - 1.6 Heating effect of current, joules law
 - 1.7 Electrical energy, units, energy bill
 - 1.8 Batteries and battery cells

Objectives:

- 1.1 Define units of current, voltage and resistance with respect to supply of single phase and three phase
- 1.2 Explain Ohm's Law with simple calculations
- 1.3 Solves simple problems on laws of resistance
- 1.4 Substitute two of the three variables to find the third unknown in equation $V = I \times R$
 - 1.4.1 Calculate the equivalent resistances for resistors joined in series, parallel and combination
 - 1.4.2 Calculate the total capacitance in series and parallel
- 1.5 Calculate electrical and mechanical power and the inter relation between the two systems
- 1.6 Heating effect of current, Jowls Law
- 1.7 Calculate the electrical energy consumption in an installation and prepare the energy bill
- 1.8 Define the inductors and its uses
- 1.9 Define RLC circuit and its uses
- 1.10 Define the batteries and battery cell
 - 1.10.1 Define primary and secondary battery
 - 1.10.2 State the types of primary and secondary batteries

Fundamentals Of Electricity A Pre

Lei Huang



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