

## CHAPTER-1

# ELECTRICAL ENGINEERING FUNDAMENTALS

### Learning Outcomes

- 1.1 Define Ohm's Law And State The Laws Of Resistance.
- 1.2 State Work, Power And Energy.
- 1.3 State And Explain Kirchhoff's Laws.
- 1.4 Define (A) Flux (B) Inductance (C) Capacitance.
- 1.5 State (A) Faradays Laws Of Electromagnetic Induction (B) Lenz's Law (C) Fleming's Right-Hand Rule (D) Fleming's Left-Hand Rule
- 1.6 State And Explain Dynamically Induced EMF And Statically Induced EMF.
- 1.7 Define The Terms Related To Alternating Current (A) Alternating Current (B) Instantaneous Value (C) Maximum Value (D) Time Period (E) Power (F) Power Factor
- 1.8 State Power And Power Factor In (A) Pure Resistor (B) Pure Inductor (C) Pure Capacitor
- 1.9 Explain Single Phase A.C Series Circuits Consisting Of (A) R-L (B) R-C (C) R-L-C.
- 1.10 Explain Three Phase System With Voltage, Current And Power Equations
- 1.11 Advantages Of Three Phase System Over Single-Phase System.
- 1.12 Disadvantages Of Three Phase System Over Single-Phase System.

# Fundamentals Of Electrical Engineering Of S K Sahdev

**F Rizvi**



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