

Module 1

Chapter 1 : Single Phase Transformers 1-1 to 1-54

Syllabus : Review of working principle, EMF equation and Equivalent circuit, Phasor diagram (Resistive, Inductive and Capacitive load), Voltage regulation, Losses and Efficiency, Condition for maximum efficiency, **Parallel operation :** No load operation, **On load operation :** Equal voltage operation and Unequal voltage operation, **Testing of transformer :** OC and SC test, Sumpner's Test.

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Module 3

Chapter 3 : Three Phase Transformer 3-1 to 3-36

Syllabus : Constructional details, Principle of operation, Connections and Phasor groups, Parallel operation, Excitation phenomenon in transformers, Harmonics in three phase transformers, Suppression of harmonics, Oscillating neutral phenomenon, Switching in transient phenomenon, Open delta or V- connection, Three phase to two phase conversion (Scott connection).

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Module 4

Chapter 4 : Three Phase Induction Motors (Part-1)
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Module 6

Chapter 6 : Single Phase Induction Motors 6-1 to 6-18

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