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(Common to B.E. Computer Science & Engineering & B.Tech. Information Technology)

Unit – I DC & AC circuits (15)

Basics of electricity – Electric Energy and Power –Circuit Elements and Sources - Kirchoff's laws – Series and parallel combination of resistances – Mesh analysis – Nodal analysis – Network Theorems.
Sinusoidal excitation – RMS, average and peak values - Phasor representation – RC, RL and RLC circuits - Complex power – Resonance – Three phase circuits - Line and phase values.

Unit – II Magnetic Circuits (15)

Magnetic effects of electric current – Magnetic circuits – Magnetization characteristics of materials – Electromagnetic induction and force – Self and mutual inductance – AC operation of magnetic circuits and energy losses.

Unit – III (20)

D.C. Machines – Constructional features – EMF and Torque – Circuit Model – Characteristics of D.C. Motors – Speed Control.
Transformers – Constructional features – Transformer operation – Circuit model of transformer – Voltage regulation – Efficiency – Introduction to 3 phase transformers.

Unit – IV A.C. Machines (20)

Synchronous machines – Circuit model – Armature leakage reactance – Synchronous reactance – Voltage regulation – Synchronizing to mains – Operating characteristics.
Induction machines – Construction – Circuit model – Power across airgap, Torque and power output – Torque-slip characteristic – Starting arrangements – Speed control of induction motor.
Single phase induction motors – A.C. series motor

Unit – V Control Systems (20)

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Unit – V Control Systems (20)

Introduction to Control Systems – Closed loop control – Examples – Mathematical models of simple physical systems – Transfer function – Control Components – D.C. & A.C. Servo motors – Potentiometers – Encoders - Stepper motors – Time response of first and second order systems – Desirable pole locations of transfer functions and system stability.

Simple problems in all the units. Total = 90 Hrs

TEXT BOOKS:

1. D.P.Kothari and I.J.Nagrath, "Basic Electrical Engineering", Tata McGraw Hill Ltd., Second Edition, 2002.
2. I.J. Nagrath and M. Gopal, "Control Systems Engineering", New Age International Publishers, Third Edition, 2002.

REFERENCES:

1. T.K. Nagsarkar and M.S. Sukhija, "Basic Electrical Engineering", Oxford Express, 2005.

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REFERENCES:

1. T.K. Nagsarkar and M.S. Sukhija, "Basic Electrical Engineering", Oxford Express, 2005.
2. B.L. Theraja & A.K. Theraja, "A Textbook of Electrical Technology" Volume I & II, S.Chand, 2005
3. L.F Adams, " Engineering Instrumentation and Control IV", English Language Book Society, U.K., 1982
4. M.Gopal "Control Systems – Principle and Design", McGraw Hill Publishing Company Ltd, second edition, 2003.

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