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Electromagnetic induction: Definition of Electromagnetic Induction, Faradays Laws, Fleming's right hand rule, Lenz's Law, Statically and dynamically induced emf. Concept of selfinductance,mutual inductance and coefficient of coupling. Energy stored in magnetic field.Illustrative examples. Force on current carrying conductor placed in a magnetic field, Fleming's left hand rule. Link:Module-1 ——————————— Module – 2 2a. D.C. Machines: Working principle of D.C.Machine as a generator and a motor. Types and constructional features. Types of armature windings, Emf equation of generator, relation between induced emf and terminal voltage with an enumeration of brush contact drop and drop due to armature reaction. Illustrative examples, neglecting armature reaction. Operation of D.C. motor, back emf and its significance, torque equation. Types of D.C. motors, characteristics and applications. Necessity of a starter for D.C. motor. Illustrative examples on back emf and torque. 2b. Measuring Instruments: Construction and Principle of operation of dynamometer type wattmeter and single phase induction type energy meter. Link:Module-2 ——————————— Module – 3 3a.Single-phase A.C. Circuits : Generation of sinusoidal voltage, frequency of generated voltage, definition and numerical values of average value, root mean square value, form factor and peak factor of sinusoidally varying voltage and current, phasor representation of alternating quantities. Analysis, with phasor diagrams, of R, L, C, R-L, R-C and R-L-C circuits and, parallel and series- parallel circuits. Real power, reactive power, apparent power and power factor. Illustrative examples. 3b. Domestic Wiring: Service mains, meter board and distribution board. Brief discussion on concealed conduit wiring. Two-way and three-way control. Elementary discussion on Circuit protective devices: fuse and Miniature Circuit Breaker (MCB's). Electric shock, precautions against shock–Earthing, Earth leakage circuit breaker (ELCB) and Residual current circuit breaker (RCCB). Link:Module-3 ——————————— Module – 4 4a. Three Phase Circuits : Necessity and advantages of three phase systems, generation of three phase power. Definition of Phase sequence, balanced supply and balanced load. Relationship between line and phase values of balanced star and delta connections. Power in balanced threephase circuits, measurement of power by two-wattmeter method. Determination power factor using wattmeter readings. Illustrative examples. 4b. Three Phase Synchronous Generators: Principle of operation, Types and constructional features, Advantages of rotating field type alternator, Synchronous speed, Frequency of generated voltage,Emf equation. Concept of winding factor (excluding the derivation of distribution and pitch factors). Illustrative examples on emf equation. Link:Module-4 ——————————— Module – 5 5a. Single Phase Transformers: Necessity of transformer, Principle of operation and construction of single-phase transformers (core and shell types). Emf equation, losses, variation losses with respect to load, efficiency, Condition for maximum efficiency, Voltage regulation and its significance (Open Circuit and Short circuit tests, equivalent circuit and phasor diagrams are excluded). Illustrative problems on emf equation and efficiency only. 5b. Three Phase Induction Motors: Principle of operation, Concept and production of rotating magnetic field, Synchronous speed, rotor speed, Slip, Frequency of the rotor induced emf, Types and Constructional features. Slip and its significance. Applications of squirrel – cage and slip – ring motors. Necessity of a starter, starting of motor using stars-delta starter. Illustrative examples on slip calculations. Link:Module-5 Sorry, but the page you were trying to view does not exist. BASIC ELECTRICAL ENGINEERING Semester : I/II CIE Marks' : 40 Course Code : I8ELE13/23 SEE Marks _ : 60 Teaching Hours/week (L:T:P) —: 2:2:0 Exam Hours': 03 Credits : 03 Lecture hours per module: Six hours and Tutorials per module: one of 2 hours Course Objectives: ¢ To explain Ohm's law and Kirchhoff's laws used for the analysis of DC circuits. ¢ To explain fundamentals of AC circuits and the behaviour of R, L and Cand their combinations in AC circuits. ¢ To discuss three phase balanced circuits. ¢ To explain principle of operation, construction and performance of electrical machines such as single phase transformer, DC machines, synchronous generator, and three-phase induction motor. ¢ To introduce concepts of electrical wiring, circuit protecting devices and earthing. MODULE-I D.C.Circuits: Ohm's Law and Kirchhoff's Laws, analysis of series, parallel and series- parallel circuits excited by independent voltage sources. Power and Energy. A.C. Fundamentals: Generation of sinusoidal voltage, frequency of generated voltage, definition and numerical values of average value, root mean square value, form factor and peak factor of sinusoidally varying voltage and current, phasor representation of alternating quantities. (RBT Levels : L1, L2, L3 & L4) MODULE - 2 Single Phase Circuits: Analysis, with phasor diagram, of circuits with R, L, C, R-L, RC, R-L-C for series and parallel configurations. Real power, reactive power, apparent power and power factor. Three Phase circuits: Advantages of 3-phase power, Generation of 3-phase power, Three-phase balanced circuits, voltage and current relations in star and delta connections. Measurement of three phase power using two wattmeter method. (RBT Levels : L1, L2, L3 & L4) Click here to download Module-2 MODULE -3 Single Phase Transformers: Necessity of transformer, Principle of operation, Types and construction of transformers. emf equation, losses, variation of losses with respect to load, efficiency, Condition for maximum efficiency. Domestic Wiring: Service mains, meter board and distribution board. Brief discussion on concealed conduit wiring. Two-way and three-way control. Elementary discussion on circuit protective devices: Fuse and Miniature Circuit Breaker (MCB's), electric shock, precautions against shock. Earthing: Pipe and Plate earthing. (RBT Levels : L1, L2 & L3) Click here to download Module-3 MODULE - 4 DC Generators: Principle of operation, Construction of D.C. Generators. Expression for induced emf,Types of D.C. Generators,Relation between induced emf and terminal voltage. DC motors: Principle of operation,Back emf,Torque equation, Types of dc motors, Characteristics of dc motors (shunt and series motors only) and Applications. (RBT Levels : L1, L2 & L3) Click here to download Module-4 MODULE — 5 Three Phase Synchronous Generators: Principle of operation, Constructional details, Synchronous speed, Frequency of generated voltage, emf equation, Concept of winding factor (excluding the derivation and calculation of distribution and pitch factors). Three Phase Induction Motors: Principle of operation, Generation of rotating magnetic field, Construction and working of three-phase induction motor, Slip and its significance. Necessity of starter, star-delta starter. (RBT Levels : L1, L2 & L3) Click here to download Module-5 Course Outcomes: At the end of the course the student will be able to: . Analyze D.C and A.C circuits. ° Explain the principle of operation and construction of single-phase transformers. Explain the principle of operation and construction of DC machines and synchronous machines. Explain the principle of operation and construction of three-phase induction motors. Discuss concepts of electrical wiring, circuit-protecting devices and earthing. Graduate Attributes (As per NBA): Engineering Knowledge, Problem Analysis. Question paper pattern: The question paper will have ten questions. Each question is set for 20 marks. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), should have a mix of topics under that module. The students have to answer 5 full questions, selecting one full question from each module. Click here to download previous year question paper Textbooks: 1 Basic Electrical Engineering, D C Kulshreshtha, Tata McGraw Hill, Revised First Edition. 2 Principles of Electrical Engineering & Electronics, V.K. Mehta, Rohit Mehta, S.ChandPublications. Reference Books: 1 Fundamentals of Electrical Engineering and Electronics, B. L. Theraja, S. Chand & Company Ltd, Reprint Edition 2013. 2 Electrical Technology, E. Hughes, International Students 9th Edition, Pearson, 2005. 3 Basic Electrical Engineering, D. P. Kothari and I. J. Nagrath, Tata McGraw Hill, 2017.

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