PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

Discipline: Electrical Engg. Semester: First (Sec-B)

Name of the Teaching Faculty : Subesh Chandra Nayak

Subject: Basic Electrical Engg. No. Of Days/per week class allotted 2

Semester From Date : 9-11-2020 To Date : 15-02-2021 No. Of Weeks : 15

Week	Class Day	Theory /Practical Topics
1	1	Concept of current flow, Source, load, ohm's law
	2	Concept of resistance, Series circuit parallel circuit
2	3	Effect of power in Series and parallel circuit.
	4	Kirchhoff's law
3	5	Simple problems on Kirchhoff's law
	6	Generation of alternating emf., Difference between A.C and D.C.
4	7	Define Amplitude, instantaneous value, cycle, Time period, frequency, phase angle, phase difference
	8	State and explain R.M.S value, Average value, Amplitude factor and Form factor
5	9	Simple problems on R.M.S value, Average Value
	10	Represent A.C value in phasor diagram, A.C through pure R
6	11	A.C through L, C, RL
	12	A.C. through R.C, RLC
7	13	Simple problem on RL, RLC, RC series circuit
	14	Concept of power, power factor, impedance triangle and power triangle
8	15	Elementary idea on generation of Electricity from thermal power station with block diagram

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Week	Class Day	Theory /Practical Topics
	16	Generation of Electricity from hydro power station
9	17	Generation of Electricity from nuclear power station
	18	Introduction to D.C. Machine, Main parts of DC machine
10	19	Classification of D.C. generator, Formula derivation
	20	Problems on D.C generator
11	21	Classification of DC Motor...
	22	Problems on DC Motor
12	23	Uses of DC generator and Motor, types and Uses of Single phase induction motor
	24	Concept of Lumen, filament lamp - its construction & principle, fluorescent lamp its construction
13	25	Fluorescent lamp - its operating principle, LED - Construction, operating principle, Star rating of home appliances
	26	Types of wiring, Single line diagram
14	27	Basic protective device in house hold wiring, Calculate energy consumed in Electrical installation
	28	Introduction to measuring instrument, torque in instrument
15	29	Torque in instrument, use of PMMC, MI type instrument,
	30	Draw connection diagram of AC/DC Ammeter, volt meter, watt meter.

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