LESSION PLAN FOR ACADEMIC SESSION:-2022-23

LE	SSION PLAN FOR A	CADEMIC SESSION:-2022-23
Discipline:- Civil/Electrical/Mechanical	Semester:- 1st	Name of the teaching faculty:-TUKURAJ SOREN
Engg	No of days	Semester from:-15-09-2022 to 22-10-2022
Subject:- Th.4(a) Basic	No. of days/ per week class	Semester work
Electrical Enggineering	allotted:-2	Number of Weeks:-13
	Class day	Theory
Week	1 st (26.10.2022)	1. FUNDAMENTALS
1st	1 (20.10.2022)	1.1 Concept of current flow.
		1.3 Concept of source and load.
		1.3 State Ohm's law and concept of resistance.
	1 st (31.10.2022)	1 4 Relation of V. I & R in series circuit.
2nd	1 (31.10.2022)	1.5 Relation of V. I & R in parallel circuit.
	and(02.11.2022)	1.6 Division of current in parallel circuit.
	2 nd (02.11.2022)	1.7 Effect of power in series & parallel circuit.
		1.8 Kirchhoff's Law.
3rd	1 st (14.11.2022)	1.9 Simple problems on Kirchhoff's law.
		1.9 Simple problems on kirchite
	2 nd (16.11.2022)	2. A.C. THEORY
		2.1 Generation of alternating emf.
		2.2 Difference between D.C. & A.C.
4th	1 st (21.11.2022)	2.3 Define Amplitude, instantaneous value, cycle, Time
4111		period frequency, phase angle, phase difference.
	2 nd (23.11.2022)	2.4 State & Explain RMS value, Average value, Amplitude
	2 (23.11.2022)	factor & Form factor with Simple problems.
		2.5 Represent AC values in phasor diagrams.
	(ft.co.11.0000)	2.6 AC through pure resistance, inductance &
5th	1 st (28.11.2022)	
		capacitance
	2 nd (30.11.2022)	2.7 AC though RL, RC, RLC series circuits
	1 st (05.12.2022)	2.7 AC though RL, RC, RLC series circuits
6th	2 nd (07.12.2022)	2.8 Simple problems on RL, RC & RLC series circuits
	2 (07.12.2022)	
	1 st (12.12.2022)	2.9 Concept of Power and Power factor
7th	1 (12.12.	2.10 Impedance triangle and power triangle.
	2 nd (14.12.2022)	3 GENERATION OF ELECTRICAL POWER
	2 (14.12.2022)	3.1 Give elementary idea on generation of electricity
		from thermal power station with block diagram
		3.1 Give elementary idea on generation of electricity
8th	1 st (19.12.2022)	3.1 Give elementary idea on generation with block diagram
		from hydro power station with block diagram
	2 nd (21.12.2022)	3.1 Give elementary idea on generation of electricity
	2 (21.12.2022)	from nuclear power station with block diagram
Oth	1 st (02.01.2023)	4. CONVERSION OF ELECTRICAL ENERGY
9th		4.1 Introduction of DC machines.
		4.2 Main parts of DC machines.
	2 nd (04.01.2023)	4.3 Classification of DC generator
	2 (01.01.2023)	4.4 Classification of DC motor.
		4.5 Uses of different types of DC generators & motors.
	- st/og 21 2222	4.5 Uses of different types of be generated a motors
10th	1 st (09.01.2023)	4.6 Types and uses of single phase induction motors.
		4.7 Concept of Lumen
	The second secon	4.8 Different types of Lamps (Filament, Fluorescent, LED
		4.6 Different types of Lamps
		bulb) its Construction and Principle.
	2 nd (11.01.2023)	bulb) its Construction and Principle. 4.9 Star rating of home appliances (Terminology, Energy

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LESSION FLANTON ACADEMIC SESSION:-2022-25			
11th	1 st (16.01.2023)	5. WIRING AND POWER BILLING 5.1 Types of wiring for domestic installations. 5.2 Layout of household electrical wiring (single line diagram showing all the important component in the system).	
	2 nd (18.01.2023)	5.3 List out the basic protective devices used in house hold wiring.5.4 Calculate energy consumed in a small electrical installation	
-12th	1 st (23.01.2023)	6. MEASURING INSTRUMENTS 6.1 Introduction to measuring instruments.	
	2 nd (25.01.2023)	6.2 Torques in instruments. 6.3 Different uses of PMMC type of instruments (Ammeter & Voltmeter).	
13th	1 st (30.01.2023)	6.4 Different uses of MI type of instruments (Ammeter & Voltmeter).6.5 Draw the connection diagram of A.C/ D.C Ammeter, voltmeter, energy meter and wattmeter. (Single phase only).	

Teaching Faculty

Program Coordinator (E.E)

Academic

Coordinator

PRINCIPAL GOVT. POLYTECHNIC, NUAPADA