KALINGA NAGAR POLY TECHNIC, TARAPUR, JAJPUR. Lesson plan for 1STSEM2023(winter)

Subject:(Th.4a)Branch:

Electrical

Class allotted:- 02p/week

Faculty name-Aisurya Mishra

Discipline		From date:-16/08/23 To date:11/12/23	Teaching Aid
Subject:	Date/Period	Theory/ Practical –Topics/Lesson	
Weeks			
Week No-1	16/08/23 to 19/08/23	1. FUNDAMENTALS 1.1 Concept of current flow. 1.2 Concept of source and load. 1.3 State Ohm's law and concept of resistance. 1.4 Relation of V, I & R in series circuit. 1.5 Relation of V, I & R in parallel circuit.	White board & marker
Week No-2	21/08/23 to 26/08/23	1.6 Division of current in parallel circuit. 1.7 Effect of power in series & parallel circuit. 1.8 Kirchhoff's Law.	White board & marker
Week No-3	28/08/23 to 02/09/23	1.9 Simple problems on Kirchhoff's law. 2. A.C. THEORY 2.1 Generation of alternating emf. 2.2 Difference between D.C. & A.C.	White board & marker
Week No-4	04/09/23 to 09/09/23	2.3 Define Amplitude, instantaneous value, cycle, Time period, frequency, phase angle, phase difference. 2.4 State & Explain RMS value, Average value, Amplitude factor & Form factor with Simple problems. 2.5 Represent AC values in phasor diagrams	White board & marker
Week No-5	11/09/23 to 16/09/23	2.6 AC through pure resistance, inductance & capacitance 2.7 AC though RL, RC, RLC series circuits. 2.8 Simple problems on RL, RC & RLC series circuits.	White board & marker
Week No-6	18/09/23 to 23/09/23	2.9 Concept of Power and Power factor 2.10 Impedance triangle and power triangle.	White board & marker
Week No-7	25/09/23 to 30/09/23	3. GENERATION OF ELECTRICAL POWER 3.1 Give elementary idea on generation of electricity from thermal , hydro & nuclear power station with block diagram	White board & marker
Week No-8	03/10/23 to 07/10/23	4. CONVERSION OF ELECTRICAL ENERGY (No operation, Derivation, numerical problems) 4.1 Introduction of DC machines. 4.2 Main parts of DC machines. 4.3 Classification of DC generator	White board & marker
Week No-9	09/10/23 to 14/10/23	4.4 Classification of DC motor. 4.5 Uses of different types of DC generators & motors. 4.6 Types and uses of single phase induction motors.	White board & marker

1	KALINGA NAGAR POLYTECHINA			
Veek No-10	to	KALINGA NAGAR POLY TECHNIC, TARAPUR, JAJPUR. Lesson plan for 1 ST SEM2023(winter) 4.7 Concept of Lumen 4.8 Different types of Lamps (Filament, of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and Principle 4.9 St. of home and the construction and the constructi	rent types of Lamps (Filament	
Week No-11	20/10/23 30/10/23 to	Concept) 5. WIRING AND POWER BILLING 5.1 Types of wiring for domestic installations. 5.2 Layout of household important component in the system).	White board & marker White board &	
Week No-12	04/11/23 06/11/23 to		marker White board &	
Week No-13	11/11/23 13/11/23 to 18/11/23	5.4 Calculate energy consumed in a small electrical installation 6. MEASURING INSTRUMENTS 6.1 Introduction to measuring instruments. 6.2 Torques in instruments.	marker & smart board White board &	
Week No-14	20/11/23 to 25/11/23	6.3 Different uses of PMMC type of instruments (Ammeter & Voltmeter). 6.4 Different uses of MI type of instruments (Ammeter & Voltmeter).	White board & marker & smart board	
Week No-15	28/11/23 to 02/12/23	(Single phase only).	White board & marker & smart board	

Previous year question & answer discussion

Revision

Signature of HOD

04/12/23

09/12/23

11/12/23

to

Week

No-16

Week

No-17

signature of faculty

White board &

marker &

smart board