

BHUBANANANDA ORISSA SCHOOL OF

ENGINEERING, CUTTACK

ELECTRICAL ENGG. DEPARTMENT

LESSON PLAN

SEMESTER : 2nd (A)(CIVIL)

SESSION – summer-(2021-22)

SUBJECT: BEE

NAME OF FACULTY: Sukanta Kumar Nandi

Discipline: Electrical Engg.	Semester:2nd	Name of the teaching faculty: SUKANTA KUMAR NANDI
Subject-BEE	No. of Days/per week class allotted:02PERIODS /WEEK (WED,FRI-1 period each)	Semester: From Date: 14/03/2022 To Date: 18/06/2022 No. of weeks: 14 WEEKS
Week	Class Day	Theory/Practical Topics
1 st (14/03/2022-19/03/2022)	16/03/2022	1. FUNDAMENTALS 1.1 Concept 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 and R in series circuit
	18/03/2022	Dola Purnima
	19/03/2022	Holi
2 nd (21/03/2022-26/03/2022)	23/03/2022	1.5 Relation of V,I and R in parallel circuit
	25/03/2022	1.6Division of current in parallel circuit 1.7 Effect of power in series and parallel circuit
3 rd (28/03/2022-02/04/2022)	30/03/2022	1.8 Kirchoff's law 1.9 Simple problems on kirchoff's law
		2. A.C. THEORY 2.1 Generation of alternating emf. 2.2 Difference between D.C. & A.C..
	01/04/2022	UTKAL DIWAS
4 th (04/04/2022-09/04/2022)	06/04/2022	2.3 Define Amplitude, instantaneous value, cycle, Time period, frequency, phase angle, phase difference.
	08/04/2022	2.4 State & Explain RMS value, Average value, Amplitude factor & Form factor with Simple problems.

5 th (11/04/2022-16/04/2022)	13/04/2022	2.4 State & Explain RMS value, Average value, Amplitude factor & Form factor with Simple problems.
		2.5 Represent AC values in phasor diagrams. 2.6 AC through pure resistance, inductance & capacitance
	14/04/2022	AMBEDKAR JAYANTI
	15/04/2022	GOOD FRIDAY
6 th (18/04/2022-23/04/2022)	20/04/2022	2.7 AC through RL, RC, RLC series circuits.
	22/04/2022	2.8 Simple problems on RL, RC & RLC series circuits
7 th (25/04/2022-30/04/2022)	27/04/2022	2.9 Concept of Power and Power factor 2.10 Impedance triangle and power triangle
	27/04/2022	CLASSTEST -1
8 th (01/05/2022-07/05/2022)	04/05/2022	3. GENERATION OF ELECTRICAL POWER 3.1 Give elementary idea on generation of electricity from thermal , hydro power station with block diagram
	06/05/2022	3.1.1 Electricity from Nuclear power station with block diagram
9 th (09/05/2022-14/05/2022)	11/05/2022	4. CONVERSION OF ELECTRICAL ENERGY (No operation, Derivation, numerical problems) 4.1 Introduction of DC machines. 4.2 Main parts of DC machines
	12/05/2022	INTERNAL ASSESSMENT
	13/05/2022	4.3 Classification of DC generator 4.4 Classification of DC motor. 4.5 Uses of different types of DC generators & motors
10 th (16/05/2022-21/05/2022)	16/05/2022	BUDHA PURNIMA

	18/05/2022	4.6 Types and uses of single phase induction motors. 4.7 Concept of Lumen
	20/05/2022	4.8 Different types of Lamps (Filament, Fluorescent, LED bulb) its Construction and Principle. 4.9 Star rating of home appliances (Terminology, Energy efficiency, Star rating Concept)
11 th (23/05/2022-28/05/2022)	25/05/2022	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).
	27/05/2022	5.3 List out the basic protective devices used in house hold wiring. 5.4 Calculate energy consumed in a small electrical installation
12 th (30/05/2022-04/06/2022)	30/05/2022	SABITRI AMABASYA
	01/06/2022	5.3 List out the basic protective devices used in house hold wiring. 5.4 Calculate energy consumed in a small electrical installation
	03/06/2022	CLASSTEST -2
13 th (06/06/2022 – 11/06/2022)	08/06/2022	6. MEASURING INSTRUMENTS 6.1 Introduction to measuring instruments
	10/06/2022	6.2 Torques in instruments.
14 th (13/06/2022-18/06/2022)	17/06/2022	6.3 Different uses of PMMC type of instruments (Ammeter & Voltmeter). 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).