

Discipline: ELECTRICAL/CIVIL/MECH		Semester :1st Sem	Name of the Teaching Faculty : SwetaleenaDehury (PTGF)
Subject: BASIC ELECTRICAL ENGG.		No. of days/week class allotted:2p(55Min)/week	Semester From date: 25 Oct 2022 to Date: 31 Jan 2023 No. Of Weeks:15
Week		Class Day	Theory Topics
<b>1ST</b>	1st		1.3.State Ohm's law & concept of resistance 1.4 Relation of V,I,R in series circuit
	2nd		
<b>2nd</b>	1st		1.5 Relation of V,I,R in parallel circuit 1.6 Division of current in parallel circuit
	2nd		1.7 Effect of power in series & parallel circuit
	1st		1.8 Kirchoff's law 1.9 Simple problems on Kirchoff's law
<b>3rd</b>	2nd		Tutorial
	1st		2.1 Generation of alternating emf 2.2 Difference between D.C & A.C
<b>4th</b>	2nd		2.3 Define Amplitude, Instantaneous value, cycle, Time period, Frequency, Phase angle, phase difference
	1st		2.4 State explain RMS value, Average value, amplitude factor & form factor with simple problem
<b>5th</b>	2nd		2.5 Represent AC values in phasor diagram 2.6 AC through pure resistance, inductance & capacitance
	1st		

<b>6th</b>	1st	2.7 AC through RL,RC,RLC series circuit 2.8 Problems
	2nd	2.9 Cocept of power & power factor 2.10 Impdenance triangle & power triangle
<b>7th</b>	1st	class Test 1
	2nd	3. GENERATION OF ELECTRICAL POWER 3.1 Explain generation of electricity from thermal power station with block diagram
<b>8th</b>	1st	Hydro Power station
	2nd	Nuclear Power station
<b>9th</b>	1st	INTERNAL
	2nd	4. CONVERSION OF ELECTRICAL ENERGY 4.1 Introduction of DC m/c 4.2 Main parts of DC m/c
<b>10th</b>	1st	4.3 Classification of DC generator 4.4 Classification of DC motor
	2nd	4.5 Uses of different types of DC generator & motors 4.6 Types & uses of single phase induction motor
<b>11th</b>	1st	4.7 Concept of lumen 4.8 construction and principle of filament lamp
	2nd	Fluorescent lamp ,LED bulb
<b>12th</b>	1st	Star rating of home appliances(Terminology,Energyefficiency,star rating concebt)
	2nd	Class Test 2
<b>13th</b>	1st	5. WIRING & POWER BILLING 5.1 Types of wiring for domestic installation 5.2 Layout of household electrical wiring
	2nd	5.3 List out the basic protective devices used in house hold wiring 5.4 Calculate energy consumed in a small electrical calculation

