DISCIPLINE – CV,ML	SEMESTER 1 ST		
		NAME OF THE TEACHING FACULTY- RASHI RANJAN DASH,Sr. Lecturer,Electrical	
			SUB-BASIC ELECTRICAL
WEEK	Alloted-2 CLASS DAY	NO OF WEEK – 13 WEEKS THEORY	
VVLLIN	CLASS DAT	THEORY	
1 ^{s†} WEEK	1 ^{s⊤} day 2 nd day 3 rd day	Concept of current flow. Concept of source and load. State Ohm's law and concept of resistance. Relation of V, I & R in series circuit. Relation of V, I & R in parallel circuit.	
2 nd WEEK	1 st day 2 nd day 3 rd day	Division of current in parallel circuit. Effect of power in series & parallel circuit. Kirchhoff's Law. Simple problems on Kirchhoff's law.	
	1 ^{s⊤} day 2 nd day	2. A.C. THEORY Generation of alternating EMF. Difference between D.C. & A.C. Define Amplitude, instantaneous value, cycle, Timeperiod, frequency, phase angle, phase difference.	
3 RD WEEK			
	4 1	State & Explain RMS value, Average value, Amplitudefactor & Form factor with Simple problems.	

5™WEEK	1 ^{s⊤} day 2 nd day	AC though RL, RC, RLC series circuits. Simple problems on RL, RC & RLC series circuits. Concept of Power and Power factor Impedance triangle and power triangle.
6™WEEK	1 ^{s⊤} day 2 nd day	3. GENERATION OF ELECTRICAL POWER Give elementary idea on generation of electricity fromthermal power station with block diagram
7 ^{тн} WEEK	1 ^{s⊤} day 2 nd day	3. GENERATION OF ELECTRICAL POWER Give elementary idea on generation of electricity fromhydro & nuclear power station with block diagram
8 ^{тн} WEEK	1 ^{s⊤} day 2 nd day	4. CONVERSION OF ELECTRICAL ENERGY (No operation, Derivation, numerical problems) Introduction of DC machines. Main parts of DC machines. Classification of DC generator
9™WEEK	1 ^{s⊤} day 2 nd day	Classification of DC motor. Uses of different types of DC generators & motors. Types and uses of single phase induction motors. Concept of Lumen Different types of Lamps (Filament, Fluorescent, LEDbulb) its Construction and Principle. Star rating of home appliances (Terminology, Energyefficiency, Star rating Concept)
	1 st day 2 nd day	5. WIRING AND POWER BILLING Types of wiring for domestic installations.

10™WEEK		Layout of household electrical wiring (single line diagramshowing all the important component in the system). List out the basic protective devices used in house holdwiring. Calculate energy consumed in a small electricalinstallation .
11™WEEK	1 ^{s⊤} day 2 nd day	6. MEASURING INSTRUMENTS Introduction to measuring instruments. Torques in instruments. Different uses of PMMC type of instruments (Ammeter &Voltmeter).
12™WEEK	1 ^{s⊤} day 2 nd day	Different uses of MI type of instruments (Ammeter &Voltmeter). Draw the connection diagram of A.C/ D.C Ammeter, voltmeter, energy meter and wattmeter. (Single phase only).
13™WEEK	1 ^{s⊤} day(govt holiday) 2 nd day	REVISION & DOUGHT CLEARING