Discipline	Electrical	Semester	1st	Name of the teching faculty	
					No of week
Subject	Basic electrials & electronic engg.	NO. of days class per week alloted	4	Semester from date to date	16

1st	1st	Define current, Source & load. Resistance & ohm's law.
	2nd	Relation of V, I, R in series & parallel ckt.
	3rd	electron emission & its type.
	4th	Explain conductor, semiconductor & Insulator.
2nd	1st	Division of current in parallel ckt.
	2nd	kirchhoff's law & its problem.
	3rd	Different betn Intrinsic & Extrinsic semiconductor Different betn vaccum tube & semiconductor
	4th	Working of PN junction diode, zener diode.
3rd	1st	Different betn. DC & AC. Define Amplitude, instantaneous value, cycle, Time period.
	2nd	Frequency, Phase angle, phase difference. Explain light emitting diode.
	3rd	Integrated ckt & it's advantage.
	4th	Rms value, Average value, Amplitude & from factor.

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	1st	Explain AC value in phasor diagram. AC through resistance, inductance, capacitance.
4th	2nd	Describ AC through RL, RC, RLC series ckt.
	3rd	Simple problem on RL, RC, RLC series ckt.
	1st	Define Rectifier. Types of Rectifier.
5th	2nd	Merits & Demerits of Rectifier. Define filter.
	3rd	Types of filter (capacitor, choke i/p & π)
	4th	Working of DC power with block diagram.
	1st	Define power & power factor, Impedance triangle & power triangle.
6th	2nd	Thermal power plant & hydro power plant.
	3rd	Nuclear power plant.
	4th	Explain DC machines & main parts of DC machines.
	1st	Explain transistor. Types of transistor configuration
7th	2nd	o/p & i/p current gain relationship in CE, CB & CC configuration.
	3rd	Define biasing & Need of biasing.
	4th	Types of biasing with ckt diagram.

8th	1st	Types of DC generator & DC motors.
	2nd	Use of DC generator & DC motors. Types of single phase induction motors
	3rd	Define lumen. Types of lamps.
	4th	Construction of filament, fluorscent, LED bulb.
9th	1st	Define amplifier, working of single phase CE amplifier.
	2nd	Explain Oscillators & its types.
	3rd	Oscillators with different elements through block diagram.
	4th	Explain communication system with block diagram.
10th	1st	Types of wiring for domestic installation.
	2nd	Protective device used in house hold wiring
	3rd	Calculated energy consumed in a small electric installation.
11th	1st	Explain modulation
	2nd	Explain demodulation.
	3rd	Types of modulation (AM, FM & PM)

12th	1st	different type modulation & demodulation.
	2nd	Explain measuring instruments.
	3rd	Different uses of PMMC type of instruments.
13th	1st	Torques in instruments.
	2nd	Define Trandure & types of transducer.
	3rd	Define sensor & type of sensor.
	4th	Active transducer & passive transducer.
14th	1st	Working of photo emission.
	2nd	Application of photo emission.
	3rd	Connection diagram of AC ammeter.
	4th	Connection diagram of DC ammeter.
15th	1st	Connection diagram of AC & DC voltmeter.
	2nd	connection diagram of AC & DC energy meter & wattmeter.
	3rd	Explain photoconductive & its application.
	4th	working of photovelatic transducer & its application.

16th	1st	Define multimeter & its application.
	2nd	Working of multimeter with block diagram.
	3rd	Working of CRO with block diagram.
	4th	Revision.