LESSON PLAN-2020
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- ETC ….L	Semester- 3RD	Name of teaching faculty- SASMITA KUMARI DAS
SUBJECT- Circuit and Network Theory	No of days/ per week class alloted-	SEM From date- 2/7/2019 No of weeks-19
Week	Class day	Theory Topics
1st	09-01-2020	1. CIRCUIT ELEMENTS AND LAWS: 1.1 Voltage, current, power and energy
	10-01-2020	solving problem related to v,I,p and E
	11-01-2020	1.2 Resistance, Inductance & capacitance as parameters
	12-01-2020	1.3 Active, Passive, Unilateral & bilateral, Linear & Non linear elements
2nd	13-01-2020	DO
	14-01-2020	1.4 KVL and KCL, Voltage division & current division.
	15-01-2020	2. MAGNETIC CIRCUITS 2 . 1 Introduction
	16-01-2020	2 . 2 Magnetizing force, Intensity, MMF, flux and their relations
	17-01-2020	DO
3rd	18-01-2020	2 . 3 Permeability, reluctance and permeance
	19-01-2020	class Test
	20-01-2020	2 . 4 Analogy between electric and Magnetic Circuits
	21-01-2020	2 . 5 B-H Curve,2 . 7 Hysteresis loop
	22-01-2020	2 . 6 Series & parallel magnetic circuit
4th	23-01-2020	solving poblem
	24-01-2020	NETWORK ANALYSIS: 3.1 Mesh Analysis
	25-01-2020	3.2 Mesh Equations by inspection 3.2.1 Super mesh Analysis
	26-01-2020	solving problem related to mesh analysis
	27-01-2020	3.2.2 Nodal Analysis 3.2.3 Nodal Equations by inspection
1st	28-01-2020	3.2.4 Super node Analysis

	29-01-2020	solving problem related to node analysis
	30-01-2020	3.2.5 Source Transformation Technique
2nd	31-01-2020	DO
	01-02-2020	4.1 Star – delta transformation
	02-02-2020	4.2 Super position Theorem
	03-02-2020	4.3 Thevenin's Theorem
	04-02-2020	4.4 Norton's Theorem
3 rd	05-02-2020	solving problem
	06-02-2020	4.5 Reciprocity Theorem
	07-02-2020	4.6 Compensation Theorem
	08-02-2020	4.7 Maximum power Transfer theorem
	09-02-2020	4.8 Milliman's Theorem
4th	10-02-2020	doubt clear class
	11-02-2020	5.1 Review of A.C. through R-L, R-C & R-L-C Circuit
	12-02-2020	5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.
	13-02-2020	5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel &Composite Circuits
	14-02-2020	5.4 Power factor & power triangle. 5.5 Deduce expression for active, reactive, apparent power.
1st	15-02-2020	5.6 Series resonance & band width in RLC Circuit
	16-02-2020	INTERNAL
	17-02-2020	INTERNAL
	18-02-2020	INTERNAL
	19-02-2020	solving problem related to RL,RC,RLC circuit
2nd	20-02-2020	do
	21-02-2020	do
	22-02-2020	5.7 Resonant frequency for a tank circuit
	23-02-2020	5.8 Q factor & selectivity in series circuit.
	24-02-2020	5.9 Poly phase Circuit
3rd	25-02-2020	5.10 Voltage, current & power in star & delta connection
	26-02-2020	5.11 Three phase balanced circuit
	27-02-2020	6.1 Self Inductance and Mutual Inductance
	28-02-2020	2 Conductively coupled circuit and mutual impedance
4 th	29-02-2020	do
	01-03-2020	6.3 Dot convention
	02-03-2020	6.4 Coefficient of coupling
	03-03-2020	6.5 Series and parallel connection of coupled inductors
	04-03-2020	7.1 Steady state & transient state response

1st	05-03-2020	do
	06-03-2020	7.2 Response to R-L, R-C & RLC circuit under DC condition
	07-03-2020	do
	08-03-2020	do
2nd	09-03-2020	do
	10-03-2020	8. introducion to wo pot network theory
	11-03-2020	do
	12-03-2020	Class Test
	13-03-2020	8.1 Open circuit impedance (z) parameters
3rd	14-03-2020	
	15-03-2020	8.2 Short circuit admittance (y) parameters
	16-03-2020	8.3 Transmission (ABCD) parameters
	17-03-2020	
4 th	18-03-2020	8.4 Hybrid (h) parameters
	19-03-2020	8.5 Inter relationships of different parameters.
	20-03-2020	do
	21-03-2020	8.6 T and π representation.
	22-03-2020	Class Test
1st	23-03-2020	9.1 Classification of filters. 9.2 Filter networks.
	24-03-2020	9.3 Equations of filter networks. 9.4 Classification of pass Band, stop Band and cut-off frequency.
	25-03-2020	9.5 Characteristic impedance in the pass and stop bands 9.6 Constant – K low pass filter
	26-03-2020	9.7 Constant – K high pass filter
2nd	27-03-2020	9.9 Constant – K Band elimination filler
	28-03-2020	Class Test
	29-03-2020	9.9 Constant – K Band pass filter
	30-03-2020	do
	31-03-2020	assignment class
	01-04-2020	doubt clear class
HOD		PRINCIPAL