		LES	SON PLAN (WINTER- 2022)	
NAME OF FACIL	Subject- JLTY-LIPSARANI BA	CIRCUIT & NETWORK THEORY	Semester-3RD Branch- Electrical Engineering	
Sl. No.	Date			
OI. 140.	Date	Chapter	Topic Name	No. of period
WEEK NO-1	15-09-2022 to 17 09-2022	MAGNETIC CIRCUITS	1 . 1 Introduction 1 . 2 Magnetizing force, Intensity, MMF, flux and their relations	1
			1.3 Permeability, reluctance and permeance 1.4 Analogy between electric and Magnetic Circuits	1
			1.5 B-H Curve	1
	19-09-2022 to 24 09-2022		cont.,,,	1
			1 , 6 Series & parallel magnetic circuit.	1
WEEK NO-2			1.7 Hysteresis loop	1
			cont	1
		COUPLED CIRCUITS	2.1 Self Inductance and Mutual Inductance2.2 Conductively coupled	
			circuit and mutual impedance	1
	26-09-2022 to 01- 10-22 03-10-22 to 08-		2.3 Dot convention2.4 Coefficient of coupling	1
			2.5 Series and parallel connection of coupled inductors.	1
WEEK NO-3			2.6 Solve numerical problems	1
		CIRCUIT ELEMENTS AND ANALYSIS		
			3 . 1 Active, Passive, Unilateral & bilateral, Linear & Non linear elements	1
WEEK NO-4	10-22		HOLIDAYS	
	10-10-22 to 15-		3.2 Mesh Analysis, Mesh Equations by inspection	1
			3.3 Super mesh Analysis	1
WEEK NO-5	10-22		Solve Numerical	1
	10.22		3 . 4 Nodal Analysis, Nodal Equations by inspection	1
			3 . 5 Super node Analysis.	1
	17-10-22 to 22- 10-22		3.6 Solve numerical problems (With Independent Sources Only)	1
		NETWORK THEOREMS	3 . 6 Source Transformation Technique3 . 7 Solve numerical problems	1
WEEK NO-6			(With Independent Sources Only)	1
			4.1 Star to delta and delta to star transformation	1
			4.2 Super position Theorem	1
	24-10-22 to 29- 10-22		Solve Numerical	1
WEEK NO-7		ALIMORR INCORDING	4.3 Thevenin's Theorem	1
VEEK NO-7			4.4 Norton's Theorem	1
			Solve Numerical	1
	31-10-22 to 05- 11-22		4.5 Maximum power Transfer Theorem.	1
			4.6 Solve numerical problems (With Independent Sources Only)	1
VEEK NO-8		AC CIRCUIT AND RESONANCE POLYPHASE CIRCUIT	Solve Numerical	1
WEEK NO-8			5.1 A.C. through R-L, R-C & R-L-C Circuit	1
			5.2 Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by complex algebra method.	1
			cont	1
WEEK NO-9	07-11-22 to 12- 11-22		5.3 Solution of problems of A.C. through R-L, R-C & R-L-C parallel &	1
			Composite Circuits	
			Solve Numerical	1
			Solve Numerical	1
WEEK NO-10	14-11-22 to 19- 11-22		5.4 Power factor & power triangle5.5 Deduce expression for active, reactive, apparent power.	1
			5.6 Derive the resonant frequency of series resonance and parallel	1
			resonance circuit	
			5.7 Define Bandwidth, Selectivity & Q-factor in series circuit.	1
			5.8 Solve numerical problems	1
			6.1 Concept of poly-phase system and phase sequence	1
WEEK NO-11	22-11-22 to 26- 11-22		6.2 Relation between phase and line quantities in star & delta connection	1
			6.3 Power equation in 3-phase balanced circuit.	1
			6.4 Solve numerical problems 6.5 Measurement of 3-phase power by two wattmeter method.	1

				1
WEEK NO-12	28-11-22 to 03- 12-22	TRANSIENTS	6.6 Solve numerical problems	1
			7.1 Steady state & transient state response	
			7.2 Response to R-L, R-C & RLC circuit under DC condition.	1
				1
			cont 7.3 Solve numerical problems	1
		TWO-PORT NETWORK	8.1 Open circuit impedance (z) parameters	1
WEEK NO-13	05-12-22 to 10- 11-22		8.2 Short circuit admittance (y) parameters	1
			Solve Numerical	1
			8.3 Transmission (ABCD) parameters	_1
			8.4 Hybrid (h) parameters.	1
			8.5 Inter relationships of different parameters	1
WEEK NO-14	12-12-22 to 17- 12-22		8.6 T and 11 representation.	1
			8.7 Solve numerical problems	1
			9.1 Define filter 9.2 Classification of pass Band, stop Band and cut-off	1
			frequency (1)	1
			9.3 Classification of filters 9.4 Constant - K low pass filter.	1
WEEK NO-15	19-12-22 to 22- 12-22		9.5 Constant - K high pass filter	
			9.6 Constant - K Band pass filter.9.7 Constant - K Band elimination	1
			filter.	1
			9.8 Solve Numerical problems	

