		BALA	SORE SCHO	OL OF ENGINEERING, BALA	023)			
		LES	SSION PLAN /	SEMESTER – 3^{RD} . (WINTER - 2	THEORY:	02		
SUB: - CIRCUIT & NETWORK THEORY			ORY	1		H: - ELECTRICAL (SEC – B)		
	TY – K.DA				BRANCH.	NO. OF	NO OF	
SL. NO	CH. NO.	MONTH WISE NO. OF CLASSES	DATE	TOPICS TO BE COVERED		CLASSES AS PER SYLLABUS	PER LESSION PLAN	
01			01/08/2023	Introduction to Circuit & Networ Theory	k \$ _{1/1}			
	1.		134	CH.1 MAGNETIC CIRCUIT			07	
02			02/08/2023	1. 1 Introduction.		07		
03	- No		03/08/2023	1. 2 Magnetizing force, Intensity, M flux and their relations.	MF,			
04			04/08/2023	1. 3 Permeability, reluctance and pe	permeance. 07		0,	
05			05/08/2023	1. 4 Analogy between electric and M Circuits	Magnetic			
06			08/08/2023	1. 5 B-H Curve 1. 6 Series & parallel magnetic circ	rcuit.			
07			09/08/2023	1.7 Hysteresis loop				
	2			CH.2 COUPLED CIRCU	IT			
08	1		10/08/2023	2.1 Self-Inductance & Mutual Indu	ctance		1.1.	
09			11/08/2023	2.2 Conductively coupled circuit an Impedance	nd Mutual		1	
10			12/08/2023	2.3 Dot Convention	lit.	05	05	
11	01	AUGUST (22)	16/08/2023	2.4Co-efficient of Coupling		06		
12			17/08/2023	2.5 Series and Parallel connection Coupled Inductor 2.6 Solve numerical Problems	of			
	1		18/08/2024	CLASS TEST				
-				CH.3 CIRCUIT ELEMENT	ΓS AND		2	
13			19/08/2023	3.1 Active, passive, bilateral & un linear & non-linear elements	ilateral			
14			20/08/2023	3.2 Mesh analysis, mesh equation inspection. Problems	by		06	

15			21/08/2023	3.3 Super mesh analysis	ý	
16			22/08/2023	3.4 Nodal analysis, nodal equation by inspection,		
17			23/08/2023	3.5 Super node analysis,		
18			24/08/2023	3.6 Source transformation technique. 3.7 Solve Numerical Problems		
		1		CH.4 NETWOR THEOREMS		
19		A. C. Land	25/08/2023	4.1 star to delta and delta to star Transformation,		
20			26/08/2023	4.2 Superposition Theorem		
21	04		28/08/2023	4.3 The venin's Theorem	80	06
22		1	29/08/2023	4.4 Norton's Theorem,		741
23			31/08/2023	4.5 Maximum Power Transfer Theorem,		
24			01/09/2023	4.6 Solve numerical problems (With Independent source only)		
			02/09/2023	CH.5 AC CIRCUIT AND RESONANCE		
25		7 3	04/09/2023	5.1 AC through R-L, R-C, & R-L-C Circuit		
26			07/09/2023	5.2 Solution of Problems of AC through R-L ,R-C, & R-L-C series circuit by complex algebra method		
27			08/09/2023	5.3 Solution of Problems of AC through R-L, R-C, & R-L-C parallel & composite circuit. CLASS TEST	08	07
28	05		09/09/2023	5.4 Power Factor & Power Triangle 5.5 Deduce expression for active, reactive, apparent power.		
29			11/09/2023	5.6 Derive the Resonant Frequency of series Resonance and Parallel Resonance circuit		
30			12/09/2023	5.7 Define Band width, Selectivity & Q-factor in series circuit.		107
31			13/09/2023	5.8 Solve numerical problems.		
21			14/09/2023	CH.6 POLYPHASE CIRCUIT		
32		NOV.(14)	15/09/2023	6.1 Concept of Poly Phase system and Phase sequence.		
33	- 1		16/09/2023	6.2 Relationship between phase and Line quantities in star and delta Connection.		
34	06		2109/2023	6.3 Power Equation in three phases Balanced circuit.	06	05

	A design					
5			22/09/2023	6.4 Solve numerical problems		
5			23/09/2023	6.5 Measurement of 3- phase power by		
				Two-watt meter method.		
				6.6 Solve numerical problems		
			25/09/2023	CH.7 TRANSIENTS		
57			26/09/2023	7.1 Steady state & transient state Response		
38		condition. 28/09/2023 7.2 Response to R-C Circuit condition. 29/09/2023 7.2 Response to R-L-C Circ condition. 30/09/2023 7.3 Solve numerical problem CLASS TEST	27/09/2023	7.2 Response to R-L Circuit under D.C condition.	06	05
39	07		28/09/2023	7.2 Response to R-C Circuit under D.C condition.		
40	1		29/09/2023			
41			7.3 Solve numerical problems CLASS TEST			
		1		CH.8 TWO PORT NETWORK		
42			03/10/2023	8.1 Open circuit impedance (z-) Parameters.		06
43			04/10/2023	8.2 Short circuit admittance(y-) Parameters.	08	
44			05/10/2023	8.3 Transmission (ABCD) parameters		
45	08		06/10/2023	8.4 Hybrid (h) parameters.		
46			09/10/2023	8.5 Inter Relationships of different Parameters. T& pi representation.		
47	- 1		10/10/2023			06
47				CH.9 FILTERS		
49	_		11/10/2023	9.1 Define Filter		
48	1		12/10/2023	9.2 Classification of pass Band		
49 50			13/10/2023 30/10/2023 1/11/2023	9.2 Stop Band and cut off Frequency	06	
51				9.3 Classification of Filters.		
52				9.4 Constant-K low pass filter.		
53			08/11/2023	9.5 Constant-K High pass filter.		
54			09/11/202	3 CLASS TEST		
55			11/11/202	3 CLASS TEST		
56			14/11/202	CLASS TEST		
36				TOTAL	60	54

MONTH WISE: -

WORTH TUBE		REMARK	
MONTH	CHAPTER		
SEPTEMBER	CH01, CH02(UP TO 2.4)	20%	
OCTOBER	CH02(2.5-2.6), CH03 , CH04 , CH05(UP TO 5.3)	35%	
NOVEMBER	CH05(5.4 – 5.8) , CH06 , CH07	35%	
DECEMBER	CH08, CH09	10%	

Sig. of Faculty 108 123

Sig. of H.O.D

Principal