



Lesson Plan-cum-Course Progress Report

Doc. Type: FM-TL-07

Rev. No: 1

Rev. Date: 10.09.2022

Name of the Institute :		C. V. Raman polytechnic, Bhubaneswar				
Department :		Electrical				
Semester/Division/Branch :		3rd/Electrical				
Subject Name with code :		Circuit and Network Theory (EET 301)				
Total No. of Class (Required) :		60		Page:1 of 1		
Faculty Name :		SUBHANKAR DASH		Date (Lesson Plan):		
Class No.	Brief Description of the Topic/Chapter to be taught	Status of Course Cover (write Yes, if taught)	Sign (Faculty/LA)	Date (Course Covered)	Course Prog. Reviewed by	Remarks
1	Introduction					
2	Magnetizing force, Intensity, MMF, flux and their relations					
3	Permeability, reluctance and permeance					
4	Analogy between electric and Magnetic Circuits					
5	B-H Curve					
6	Series & parallel magnetic circuit.					
7	Hysteresis loop					
8	Self Inductance and Mutual Inductance					
9	Conductively coupled circuit and mutual impedance, Dot convention					
10	Coefficient of coupling					
11	Series and parallel connection of coupled inductors.					
12	Solve numerical problems					
13	Active, Passive, Unilateral & bilateral, Linear & Non linear elements					
14	Mesh Analysis, Mesh Equations by inspection					
15	Super mesh Analysis					
16	Nodal Analysis, Nodal Equations by inspection					
17	Super node Analysis.					
18	Source Transformation Technique					
19	Star to delta and delta to star transformation					
20	Super position Theorem					
21	Thevenin's Theorem					
22	Norton's Theorem					
23	Norton's Theorem					
24	Maximum power Transfer Theorem.					
25	Maximum power Transfer Theorem.					
26	Solve numerical problems (With Independent Sources Only)					
27	A.C. through R-L, R-C & R-L-C Circuit					
28	Solution of problems of A.C. through R-L, R-C & R-L-C series Circuit by					
29	complex algebra method.					
30	Solution of problems of A.C. through R-L, R-C & R-L-C parallel					
31	Power factor & power triangle.					
32	Deduce expression for active, reactive, apparent power.					
33	Derive the resonant frequency of series resonance and parallel					
34	Solve numerical problems					
35	Concept of poly-phase system and phase sequence					
36	Relation between phase and line quantities in star & delta connection					
37	Power equation in 3-phase balanced circuit.					
38	Solve numerical problems					
39	Measurement of 3-phase power by two wattmeter method.					
40	Solve numerical problems.					
41	Steady state & transient state response.					
42	Steady state & transient state response.					
43	Response to R-L, R-C & RLC circuit under DC condition.					

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44	Response to R-L, R-C & RLC circuit under DC condition.					
45	Response to R-L, R-C & RLC circuit under AC condition.					
46	Solve numerical problems					
47	Open circuit impedance (z) parameters					
48	Short circuit admittance (y) parameters					
49	Transmission (ABCD) parameters					
50	Hybrid (h) parameters.					
51	Inter relationships of different parameters.					
52	T and p representation.					
53	Solve numerical problems					
54	Solve numerical problems					
55	Define filter					
56	Classification of pass Band, stop Band and cut-off frequency.					
57	Classification of filters.					
58	Constant – K low pass filter.					
59	Constant – K high pass filter.					
60	Constant – K Band pass filter, K Band elimination filter.					

(Sign. of Faculty)

Prepared by (Lesson Plan)

(Sign. of H.O.D/In-charge)

Reviewed by (Lesson Plan)

(Sign. of Principal)

Approved by (Lesson Plan)