

Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -2,Circuit & Network Theory

Semester & Branch : 3rd Sem Electrical Engineering

Total Periods-75

Name of the faculty : Sachin Kumar Satpathy

No of periods /week-5

WEEK	CLASS DAY	THEORY
1ST	1ST	INTRODUCTION TO MAGNETIC CIRCUIT
	2ND	MAGNETISING FORCE
	3RD	MMF
	4TH	INTENSITY,FLUX & THEIR RELATIONS
	5TH	PERMEABILITY,RELUCTANCE & PERMEANCE
2ND	1ST	COMPARISION BETWEEN ELECTRIC & MAGNETIC CIRCUIT
	2ND	B-H CURVE, MAGNETIC HYSTERESIS
	3RD	SERIES & PARALLEL MAGNETIC CIRCUIT
	4TH	SELF & MUTUAL INDUCTANCE
	5TH	CONDUCTIVITYLY COUPLED CIRCUIT
3RD	1ST	DOT CONVENTION
	2ND	COEFFICIENT OF COUPLING
	3RD	SERIES & PARALLEL CONNECTION OF COUPLED INDUCTOR
	4TH	NUMERICAL RELATED TO COUPLED CIRCUIT
	5TH	TYPES OF ELEMENTS
4TH	1ST	MESH ANALYSIS
	2ND	SUPER MESH ANALYSIS
	3RD	NODAL ANALYSIS
	4TH	SUPER NODE ANALYSIS
	5TH	SOURCE TRANSFORMATION TECHNIQUE
5TH	1ST	NUMERICLA RELATED TO ALL ANALYSIS
	2ND	NUMERICLA RELATED TO ALL ANALYSIS
	3RD	STAR TO DELTA & VICE VERASA CONVERSION
	4TH	SUPER POSITION THEOREM
	5TH	THEVENIN' S THEOREM
6TH	1ST	NORTON'S THEOREM
	2ND	MAXIMUM POWER THEOREM
	3RD	NUMERICAL RELATED TO NETWORK THEOREM
	4TH	AC THROUGH R, L, C CIRCUIT
	5TH	AC THROUGH RL, RC CIRCUIT
7TH	1ST	AC THROUGH RLC SERIES CIRCUIT
	2ND	AC THROUGH RLC PARELLEL CIRCUIT
	3RD	POWER FACTOR & POWER TRIANGLE
	4TH	EXPRESSION FOR ACTIVE REACTIVE & APPERENT POWER
	5TH	RESONANT FREQUENCY OF SERIES CIRCUIT
8TH	1ST	RESONANT FREQUENCY OF PARELLEL CIRCUIT
	2ND	BAND WIDTH, SELECTIVITY & Q-FACTOR OF SERIES CIRCUIT
	3RD	NUMERICAL RELATED TO RESONANCE CIRCUIT

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	4TH	NUMERICAL RELATED TO RESONANCE CIRCUIT
	5TH	DOUBT SOLVING CLASS OF NETWORK THEOREM
9TH	1ST	STEDY STATE & TRANSIENT STATE RESPONSE
	2ND	TRANSIENT RESPONSE OF RL CIRCUIT
	3RD	TRANSIENT RESPONSE OF RC CIRCUIT
	4TH	TRANSIENT RESPONSE OF RLC CIRCUIT
	5TH	NUMERICALS RELATED TO TRANSIENT RESPONSE
10TH	1ST	OPEN CIRCUIT PARAMETERS
	2ND	SHORT CIRCUIT PARAMETERS
	3RD	HYBRID CIRCUIT PARAMETERS
	4TH	TRANSMISSION PARAMETERS
	5TH	INTER RELATIONSHIP OF DIFFERENT PARAMETERS
11TH	1ST	T & PIE REPRESENTATION
	2ND	NUMERICAL RELATED TO TWO PORT NETWORK
	3RD	FILTER CLASSIFICATION
	4TH	CONST K LOW PASS FILTER
	5TH	CONST K HIGH PASS FILTER
12TH	1ST	CONST K BAND PASS FILTER
	2ND	CONST K BAND STOP FILTER
	3RD	NUMERICAL RELATED TO FILTER
	4TH	CLASS TEST
	5TH	DOUBT SOLVING CLASS OF TWO PORT NETWORK
13TH	1ST	NUMERICAL RELATED TO THEVENIN'S THEOREM
	2ND	NUMERICAL RELATED TO THEVENIN'S THEOREM
	3RD	NUMERICAL RELATED TO NORTON'S THEOREM
	4TH	DOUBT SOLVING CLASS OF NETWORK THEOREM
	5TH	DOUBT SOLVING CLASS OF NETWORK THEOREM
14TH	1ST	NUMERICAL RELATED TO AC CIRCUIT
	2ND	NUMERICAL RELATED TO RESONANT SERIES CIRCUIT
	3RD	NUMERICAL RELATED TO POLYPHASE CIRCUIT
	4TH	NUMERICAL RELATED TO POLYPHASE CIRCUIT
	5TH	CLASS TEST OF MAGNETIC CIRCUIT
15TH	1ST	NUMERICAL RELATED TO AC PARALLEL CIRCUIT
	2ND	NUMERICAL RELATED TO TRANSIENT
	3RD	OBJECTIVE TYPE QUESTION DISCUSSION
	4TH	REVISION OF MESH ANALYSIS
	5TH	REVISION OF NODAL ANALYSIS

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