


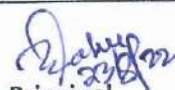
SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: ELECTRICAL ENGINEERING		Semester: 3rd	Name of the Teaching Faculty: SOUMYASHREE MOHAPATRA
Subject: CIRCUIT & NETWORK THEORY		No of Days/per week class allotted: 5	Semester from Date: 15.09.22 to Date: 22.12.22 No of Weeks:
Week	Class Day	Theory/Practical Topics	
Module - V 1st	1st 28.10.22	AC through R-L, R-C, R-L-C	
	2nd 31.10.22	Complex Algebra method Solution	
	3rd 01.11.22	AC through parallel & composite circuits.	
	4th 02.11.22	Power factor & power Δ	
	5th 03.11.22	Active, reactive & Apparent power	
Module - V 2nd	1st 04.11.22	Resonant frequency of series resonance & parallel resonance.	
	2nd 07.11.22	Bandwidth, Selectivity, Q-factor.	
	3rd 09.11.22	Numerical problems.	
	4th 10.11.22	Polyphase System & phase Sequence.	
	5th 11.11.22	Relation between phase & line Quantities in Star & Delta connection	
Module - VI 3rd	1st 14.11.22	Power equation in 3-ph balanced ckt.	
	2nd 15.11.22	Measurement of 3-φ power by 2-wattmeter method.	
	3rd 17.11.22	Numerical Problems.	
	4th 18.11.22	Steady State Response.	
	5th 21.11.22	Transient State Response.	
Module - VII 4th	1st 22.11.22	Response to R-L, R-C under DC condition	
	2nd 23.11.22	Response to R-L-C under DC condition	
	3rd 24.11.22	Numerical Problems.	
	4th 25.11.22	Numerical Problems.	
	5th 28.11.22	Z-parameters, Y-parameters	
Module VIII 5th	1st 29.11.22	ABCD Parameters	
	2nd 30.11.22	Hybrid Parameters.	
	3rd 01.12.22	Inter-Relationship between diff. parameters.	
	4th 02.12.22	T & K representation.	
	5th 05.12.22	Numerical Problems.	


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

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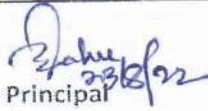
SYNERGY POLYTECHNIC, BBSR

Lesson Plan

Discipline: ELECTRICAL ENGINEERING	Semester: 3rd	Name of the Teaching Faculty: SOUMYASHREE MOHAPATRA.
Subject: CIRCUIT & NETWORK THEORY (CNT)	No of Days/per week class allotted: 5	Semester from Date: 15.09.22 to Date: 22.12.22 No of Weeks:
Week	Class Day	Theory/Practical Topics
Module - IX 1st	1st 06.12.22	Filters & its Classification.
	2nd 07.12.22	Pass band, Stop Band, Cut-off Frequency.
	3rd 08.12.22	Constant-k low Pass filters
	4th 09.12.22	Constant-k High Pass filters.
	5th 12.12.22	Constant-k Band Pass filters.
2nd	1st 13.12.22	Constant-k Band Elimination Filter
	2nd 14.12.22	Numerical Problems.
	3rd 15.12.22	— do —
	4th	— do —
	5th 16.12.22	Important Question discussion.
3rd	1st 19.12.22	Revision - Module I.
	2nd	— do —
	3rd 20.12.22	Revision - Module - II.
	4th	— do —
	5th 21.12.22	Revision - Module - III
4th	1st	— do —
	2nd 22.12.22	Revision - Module IV
	3rd	— do —
	4th	Revision - Module - VI
	5th	— do —
5th	1st	Revision - Module - V
	2nd	— do —
	3rd	Revision - Module VII, VIII
	4th	— do —
	5th	— do —


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The Lesson Plan

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Subject: CIRCUIT & NETWORK THEORY (CNT)		No of Days/per week class allotted: 5	Semester from Date: 15.09.22 to Date: 22.12.22 No of Weeks:
Week	Class Day	Theory/Practical Topics	
Module - III	1st 15.09.22.	Active, Passive, Unilateral & Bilateral, Linear & Non-linear Elements.	
	2nd 16.09.22	Mesh Analysis, Mesh Analysis by inspection	
	3rd 19.09.22.	Super mesh Analysis.	
	4th 20.09.22.	Nodal Analysis, Nodal Equation by Inspection.	
	5th 21.09.22	Super Node Analysis.	
Module - III	1st 22.09.22	Source transformation Technique.	
	2nd 23.09.22	Numericals with independent sources only.	
	3rd 26.09.22	Star to Delta, delta to Star transformation.	
	4th 27.09.22	Super Position Theorem.	
	5th 28.09.22	Thevenin's Theorem	
Module - IV	1st 29.09.22	Norton's Theorem.	
	2nd 30.09.22	Maximum Power Transfer Theorem	
	3rd 10.10.22	Numerical Problems with Independent sources only.	
	4th 11.10.22	Magnetic ckt, magnetizing force, Intensity	
	5th 12.10.22	MMF, flux and their relations.	
Module - I	1st 13.10.22	Permeability, reluctance, Permeance	
	2nd 14.10.22	Analogy between electric & magnetic ckt.	
	3rd 17.10.22	B-H Curve, Series & parallel magnetic ckt	
	4th 18.10.22	Hysteresis loop.	
	5th 19.10.22	Self Inductance & Mutual Inductance	
Module - II	1st 20.10.22	Conductively coupled ckt & mutual Impedance	
	2nd 21.10.22	Dot Convention.	
	3rd 25.10.22	Coefficient of coupling.	
	4th 26.10.22	Series & parallel connection of coupled inductors.	
	5th 27.10.22	Numerical Problems.	

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