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DISCIPLINE:	SEMESTER: 3rd	NAME OF THE TEACHING FACULTY:
ELECTRICAL	NO OF BANGAWEEK	Pritee Prava Minz, Sr. Lecturer (EE)
SUBJECT:	NO. OF DAYS/ WEEK	SEMESTER FROM DATE
ELECTRICAL CIRCUITS	CLASS ALLOTTED –	14.0-7.2025 to 15.11.2025
(TH 2)	45 Hrs	municipal monico
WEEK	CLASS DAY	THEORY TOPICS
		Single Phase A.C Series Circuits Allotted Time (Hours): Generation of alternating voltage
	2	Phasor representation of sinusoidal quantities
	3	R, L, C circuit elements its voltage and current
	-	response Impedance, reactance, impedance triangle,
2	4	Power factor, active power, reactive power,
		apparent power of R-L A.C series circuit
	e	Impedance, reactance, impedance triangle,
	5	Power factor, active power, reactive power,
		apparent power of R-C A.C series circuit
		Impedance, reactance, impedance triangle,
	6	Power factor, active power, reactive power,
		apparent power of R-L-C A.C series circuit
	7	Power triangle and vector diagram, Resonance,
3	7	Bandwidth, Quality factor and voltage
		magnification in series R-L, R-C, R-L-C circuit.
	0	Single Phase A.C Parallel Circuits: R-L, R-C and R-
	8	L-C parallel combination of A.C. circuits
		Impedance, reactance, phasor diagram,
	9	impedance triangle, Power factor, active power,
		apparent power, reactive power, power triangle
		of R-L parallel circuit.
		Impedance, reactance, phasor diagram,
4	10	impedance triangle, Power factor, active power,
		apparent power, reactive power, power triangle
		of R-C parallel circuit.
		Impedance, reactance, phasor diagram,
	11	impedance triangle, Power factor, active power,
		apparent power, reactive power, power triangle
		of R-L-C parallel circuit.
		Resonance in parallel R-L circuit
	12	Resonance in parallel R-C circuit
5	13	Resonance in parallel R.L. Crircuit
<i>J</i>	14	Resonance in parallel R-L-C circuit
	15	Bandwidth, Quality factor and voltage
		magnification
	16	Three Phase Circuits: Phasor and complex
	10	representation of three phase supply
	17	Phase sequence and polarity, Types of three-
	17	
	1.0	Phase and line quantities in three phase star
	18	

		system
7	19	Phase and line quantities in three phase delta
		system
	20	Balanced and unbalanced load
	21	Neutral shift in unbalanced load
8	22	Three phase power, active, reactive and
		apparent power in star system
	23	Three phase power, active, reactive and
		apparent power in delta system
	24	Network Reduction and Principles of Circuit
		Analysis: Source transformation
11	25	Star/delta transformation
	26	delta/star transformation
	27	Mesh Analysis
	28	Node Analysis
	29	Network Theorems: Superposition theorem
	30	Numerical on Superposition theorem
		Thevenin's theorem
	31	Numerical on Thevenin's theorem
	32	Norton's theorem
	33	Numerical on Norton's theorem
13	34	Maximum power transfer theorem
	35	Numerical on Maximum power transfer
	36	theorem
		Reciprocity Theorem
	37	Two Port Network: Open Circuit Impedance
	38	Parameters
		Short Circuit Parameters
	39	Admittance Parameters
	40	Transmission Parameters Hybrid Parameters
14	41	Unbrid Parameters
	42	Interrolationship of Two Port Network
	43	L Law Connection of Two Port Network
15	44	Inter Connection of Two Port Network
	45	Inter Connection of The
	46	Performance Test II
16	47	Revision

Signature of the Subject Teacher