

Lesson Plan

Name of the Faculty : Sanjay Charaya

Discipline : ECE

Semester : 2ND Semester

Subject : Electrical Technology

Lesson Plan Duration : 15 weeks

Week	Theory		Practical	
	Lecture	Topic	Practical	Topic
1	1	Basics of ET	1	To verify KVL & KCL.
	2	Circuit Element Classification	2	To verify Superposition Theorem on a linear circuit.
	3	KVL with numericals	3	To verify Thevenin Theorem on a linear circuit.
2	4	KCL with numericals	4	To verify Norton Theorem on a linear circuit.
	5	Star-Delta Transformation	5	To study Frequency Response of a series RLC circuit and determine fr.
	6	Delta-Star Transformation	6	To perform OC & SC test on a single phase transformer.
3	7	Superpositon Theorem	7	To perform speed control of DC motor.
	8	Thevenin Theorem	8	To perform starting & reversal of direction of a three phase induction motor.
	9	Nortons Theorem	9	Measurement of power in a three phase system.
4	10	Maximum Power Transfer Theorem	10	To calibrate a single phase energy meter.
	11	Numericals Practice		
	12	Numericals Practice		
5	13	AC fundamentals		
	14	Polar & Rectangular Form		
	15	Addition & Subtraction of AQ		
6	16	Rectified Waveforms		
	17	Generating of Alternating EMF		
	18	Numericals Practice		
7	19	AC Circuits		
	20	RL & RC AC circuit		

	21	RLC Series Circuit		
8	22	RLC Parallel Circuit		
	23	Resonance		
	24	Q-factor and Bandwidth		
9	25	Balanced 3-Phase System		
	26	Phase & Line Voltage		
	27	Star & Delta Connection		
10	28	Two Wattmeter Method		
	29	Numericals Practice		
	30	Phase Sequence		
11	31	Laws of EMI		
	32	Self & Mutual Induction		
	33	Magnetic Flux & MMF		
12	34	Losses		
	35	Transformer		
	36	EMF Equation		
13	37	Phasor Diagram		
	38	Losses & Efficiency		
	39	OC & SC test		
14	40	DC Machines		
	41	Working		
	42	Types Of DC Machine		
15	43	AC Machines		
	44	Working		
	45	Concept of Slip		