

LESSON PLAN

Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remain in
<u>III (1)</u>	<u>I</u>	<u>Introduction to Electric Circuits</u>		
		Basic Definitions	Black Board	
<u>IV (2)</u>	<u>I</u>	Electrical Circuit Elements (R, L and C)		
		Vol-ages and Currents		
<u>I (3)</u>	<u>I</u>	Independent and Dependent Sources	Black Board	
		Ohm's Law		
<u>II (4)</u>	<u>I</u>	Series and parallel circuits		
	<u>I</u>	Source Transformation	Black Board	
<u>III (5)</u>		Kirchoff's Law		
	<u>I</u>	Simple problems		
	<u>II</u>	Network Reductions Techniques		
<u>IV (6)</u>	<u>II</u>	Star-Delta Transformation	Black Board	
<u>V (7)</u>		nodal Analysis		
	<u>II</u>	Super nodes		
<u>VI (8)</u>		Mesh Analysis	Black Board	
	<u>II</u>	Super meshes		
<u>VII (9)</u>		Power	Black Board	
	<u>III</u>	A.C Circuits Introduction		
<u>VIII (10)</u>		Representations of sinusoidal waveforms	Black Board	
<u>IX (11)</u>		Peak and RMS values		

*Black Board / LCD / OHP / Other Method

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<u>Q (12)</u>	<u>III</u>	phasor representation analysis of 1 ϕ AC Circuits	Black Board	
<u>Q (13)</u>		Circuits consisting of R, L RL and RLC combinations		
<u>III (14)</u>	<u>III</u>	Real power reactive power	Black Board	
<u>Q (15)</u>		apparent power	Black Board	
	<u>III</u>	power factor		
<u>Q (16)</u>		Simple problems.	Black Board	
	<u>IV</u>	Magnetic circuits		
<u>III (17)</u>		Basic definitions Magnetic flux, flux density Reluctance, MMF	Black Board	
<u>Q (18)</u>	<u>IV</u>	Magnetic field intensity Magnetic permeability	Black Board	
<u>Q (19)</u>	<u>IV</u>	Susceptibility		
	<u>IV</u>	Comparison between Magnetic and Electrical circuits	Black Board	
<u>III (20)</u>	<u>IV</u>	Inductively coupled circuits	Black Board	
<u>III (21)</u>	<u>IV</u>	Coefficient of coupling		
	<u>IV</u>	dot convention	Black Board	

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Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remarks
24(24)	IV	Simple problems	Black Board	
	V	DC Generated Introduction		
25(25)		Principle of operation	Black Board	
26(26)	2	Construction	Black Board	
27(27)	1	EMF Equation		
28(28)		Classification	Black Board	
29(29)	3	no. of poles and		
30(30)		Internal characteristics	Black Board	
31(31)	4	of short generated		
32(32)	5	Applications	Black Board	
33(33)				
34(34)	VI	DC motor Introduction		
35(35)		Principle of operation	Black Board	
36(36)	2	Torque equation		
37(37)		Classification	Black Board	
38(38)		Speed Control methods		
39(39)	VI	operation of 3 point	Black Board	
40(40)		Starters		
41(41)	VII	Applications	Black Board	
42(42)	8	Prize		

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