

## Detailed Teaching Plan

Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
01	01	Law of Conservation of energy.	DCM/C & Xformers,			
02	01	Faraday's Law of EM induction.	—    —			
03	01	Fleming's LHR & RHR.	—    —			
04	01	Construction of DC Machines.	—    —			
05	01	Parts of DC Machines.	—    —			
06	02	Working of AC generator.	—    —			
07	02	Classification of Generators.	—    —			
08	02	Application of AC Generators	—    —			
09	02	EMF equation	—    —			
10	02	—    —	—    —			
11	02	Losses in AC Generators	—    —			
12	02	—    —	—    —			

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13	02	efficiency of AC generators	AC M/C & X-forms			
14	02	Condition for building of EMF.	— 11 —			
15	02	Characteristics of AC generators	— 11 —			
16	02	— 11 —	— 11 —			
17.	02	Armature reaction	— 11 —			
18	02	Commutation	— 11 —			
19	02	Numericals.	— 11 —			
20	02	— 11 —	— 11 —			
21	03	Working of AC motors	— 11 —			
22	03	Types of AC motors	— 11 —			
23	03	Application of AC motors	— 11 —			
24	03	Back emf.	— 11 —			

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25	03	Losses in AC motors.	AC M/c & Xforms.			
26	03	Efficiency of AC motor.	—    —			
27	03	Starters used in AC motor.	—    —			
28	03	—    —	—    —			
29	03	Characteristics of AC motor	—    —			
30	03	—    —	—    —			
31	03	Speed control of AC motor	—    —			
32	03	—    —	—    —			
33	03	Numericals.	—    —			
34	03	—    —	—    —			
35	03	—    —	—    —			
36	04	Working of Transformer.	—    —			

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37	04	Construction of Transformer.	AC Mc & X forms.			
38	04	Classification of Transformer.	—  —			
39	04	EMF equation of Transformer.	—  —			
40	04	Transformation Ratio.	—  —			
41	04	Phasor Diagram.	—  —			
42	04	Losses in Transformer	—  —			
43	04	Efficiency & Max. Efficiency	—  —			
44	04	OC & SC test.	—  —			
45	04	—  —	—  —			
46	04	All Day efficiency.	—  —			
47	04	Auto Transformer.	—  —			
48	04	Parallel operation.	—  —			

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49	04	Numericals.	Ac M/c & Xform			
50	04	— 11 —	— 11 —			
51	05	Formation of 3 phase Transformer.	— 11 —			
52	05	Types of 3 phase Transformers	— 11 —			
53	05	— 11 —	— 11 —			
54	05	Accessories of 3 phase Transformer	— 11 —			
55	05	Parallel operation of two 3-p. Xform	— 11 —			
56	05	Cooling methods.	— 11 —			
57	05	— 11 —	— 11 —			
58	05	Maintenance procedures.	— 11 —			
59	05	— 11 —	— 11 —			
60	05	— 11 —	— 11 —			

*Prasad*  
Signature of Lecturer

Signature of H