

GOVERNMENT POLYTECHNIC , LAKHISARAI				
Department of Electrical Engineering				
Subject- AC Machine			Code-1620502	
Semester v		Session-2020-21		
Lecture No	Unit	Topic	Scheduled Date	Remarks
1	Unit-1	Construction of three phase induction motor, Production of rotating magnetic field	5/8/2020	
2		Principal of working/operation, concept of slip	6/8/2020	
3		Equation of rotor induced emf, current,frequency, reactance and impedance under steady and running condition	7/8/2020	
4		Torque equation of three phase induction motor, starting and running torque of squarrel cage & slip ring induction motor	8/8/2020	
5		Condition of maximum & starting torque	12/8/2020	
6		Torque slip characteristic of three phase induction motor, effect of change in rotor circuit resistance on torque slip characeristics	13/8/2020	
7		Effect of change in supply voltage on torque slip characteristics	14/8/2020	
8		Measurement of slip by (a) Tachometer method (b)comparing rotor frequency and stator frequency	19/8/2021	
9		Speed control of three phase induction motor by (a) polecharge method (b) Frequency Control method	20/8/2021	
10		(c) By stator voltage control (d) Rotor resistance control	21/08/2020	
11		QUIZ-1	25/08/2020	
12		Comparision between squarrel cage & slip ring induction motor	26/08/2020	
13		Application of three phase induction motor	27/08/2020	
14		Power stages of three phase induction motor	28/08/2020	
15		Double cage IM (a) construction (b) Characteristics of outer, inner cage & combined characteristics	29/08/2020	
16		Indusrial application (Numerical)	2/9/2020	
17		I.M as a generalized transformer	3/9/2020	
18		Vector diagram of IM	4/9/2020	
19		QUIZ-2	5/9/2020	
20		Equivalent of three phase IM	9/9/2020	
21		Starting of three phase IM	10/9/2020	
22		Starting of three phase IM (a) stator resistance starter	11/9/2020	
23		Star-Delta Starter, auto-transformer starter	12/9/2020	
24		Rotor resistance starter	16/09/2020	
25	Unit-2	Definition & Construction of three phase alternator	17/09/2020	
26		armature, Rotor-smooth cylindrical & projecting type	18/09/2020	
27		Derivation of emf equation of alternator which includes (a) chording factor	19/09/2020	
28		Distribution factor, Factors affecting the terminal voltage of alternator	23/09/2020	
29		Armature resistance drop	24/09/2020	
30		Leakage reactance drop	25/09/2020	
31		Armature reaction at various power factor & concept of synchronous impedance	26/09/2020	
32		QUIZ-3	30/09/2020	

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