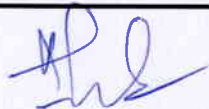


Dicipline:	EE	Semester:	5 th	Name of the Teaching Faculty:	Dinya Das.
Subject:	EC-10	No of Days/Week Class Allotted:	4	Semester From date:	15.9.23 To date 12.01.23
				No.of Weeks:	15
WEEK	Class Day	Theory Topics			
	1st	Types of alternator and their constructional features.			
	2nd	Basic working principle of alternator and the relation between speed and frequency.			
	3rd	Terminology in armature winding and expressions for winding factors (pitch factor, distribution factor)			
	4th	Explain harmonics, its causes and impact on winding factor.			
	5th				
	1st	E.m.f equation of alternator. (solve numerical problems)			
	2nd	explain armature reaction and its effect on emf at different power factor of load.			
	3rd	The vector diagram of loaded alternator. (solve numerical problems).			
	4th	Testing of alternator (solve numerical problems) open circuit test, short circuit test.			
	5th				
	1st	Determination of voltage regulation of Alternator by direct loading and synchronous impedance method.			
	2nd	Parallel operation of alternator using synchro-scope and dark & bright lamp method.			
	3rd	Explain distribution of load by parallel connected alternators.			
	4th	constructional feature of synchronous motor.			
	5th				

WEEK	Class Day	Theory Topics
	1st	Explain double revolving field theory and cross-field theory to analyse starting torque of 4-Phase induction.
	2nd	Explain working principle, Torque speed characteristics, performance characteristics and application of single
	3rd	Explain the method to change the direction of rotation of above motor.
	4th	construction, working principle, running characteristic and application of single phase series motor.
	5th	
	1st	construction, working principle and application of universal motors
	2nd	working principle of repulsion start motor, repulsion start induction run motor, repulsion induction motor.
	3rd	principle of stepper motor
	4th	classification of stepper motor
	5th	
	1st	principle of variable reluctance stepper motor
	2nd	principle of permanent magnet stepper motor.
	3rd	principle of hybrid stepper motor.
	4th	Applications of stepper motor
	5th	

Dicipline:		Semester:	Name of the Teaching Faculty:	
Subject:		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No.of Weeks:
WEEK	Class Day	Theory Topics		
	1st	EXPLAIN GROUPING OF WINDING.		
	2nd	ADVANTAGES OF GROUPING OF WINDING		
	3rd	EXPLAIN PARALLEL OPERATION OF THE THREE PHASE TRANSFORMERS.		
	4th	EXPLAIN TAP CHANGER ON LOAD TAP CHANGING		
	5th			
	1st	EXPLAIN TAP CHANGER OFF LOAD TAP CHANGING.		
	2nd	MAINTENANCE SCHEDULE OF POWER TRANSFORMERS.		
	3rd	CLASS TEST		
	4th	DISCUSSION OF ASSIGNMENT QUESTION		
	5th			
	1st	PREVIOUS SEMESTER QUESTION DISCUSSION		
	2nd	PREVIOUS SEMESTER QUESTION DISCUSSION		
	3rd	OMR TEST		
	4th	CLASS TEST QUESTION DISCUSSION & DISTRIBUTION OF EVALUATED ANSWER SHEET.		
	5th			




WEEK	Class Day	Theory Topics
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	