UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA Department of Electrical engineering

Academic Lesson Plan for 5th Semester - 2022 (Winter)

Subject: Pr.1 ELECTRICAL MACHINE LAB-II

Name of the teaching faculty- Arabinda Pradhan, Sr.Lecturer(ELECTRICAL)

SEMESTER FROM	No. of periods per week: 6	Sessional Exam. : 25 Marks
DATE:15/09/2022 TO	NO.OF WEEKS:15	End Semester Exam.: 50 Marks
DATE:22/12/2022	Total periods: 90	Total Marks: 75 Marks

WEEK	CLASS DAY	UNIT	THEORY/PRACTICAL TOPICS	REMARK
1ST	1ST	EXPERIMENT-1	Study of (Manual and Semi automatic) Direct on Line	
	2ND		starter, Star-Delta starter, connection and running a	
	3RD		3-phase Induction motor and measurement of	
			starting current.	
	4TH	EXPERIMENT-1	Study of (Manual and Semi automatic) Direct on Line	
	5TH		starter, Star-Delta starter, connection and running a	
	6TH		3-phase Induction motor and measurement of	
			starting current.	
2ND	1ST	EXPERIMENT-2	Study of (Manual and Semi automatic) Auto	
	2ND		transformer starter and rotor resistance starter	
	3RD		connection and running a 3-phase induction motor	
			and measurement of starting current.	
	4TH	EXPERIMENT-2	Study of (Manual and Semi automatic) Auto	
	5TH		transformer starter and rotor resistance starter	
	6TH		connection and running a 3-phase induction motor	
200	4.67		and measurement of starting current.	
3RD	151	EXPERIMENT-3	Study and Practice of connection & Reverse the	
	2ND		direction of rotation of Three Phase Induction motor.	
	3RD			
	4TH	EXPERIMENT-3	Study and Practice of connection & Reverse the	
	5'		direction of rotation of Three Phase Induction motor.	
	6TH			
4TH	1ST	EXPERIMENT-4	Study and Practice of connection & Reverse the	
	2ND		direction of rotation of Single Phase Induction motor.	
	3RD			
	4TH	EXPERIMENT-4	Study and Practice of connection & Reverse the	
	5TH		direction of rotation of Single Phase Induction motor.	
	6TH			
5TH	1ST	EXPERIMENT-5	Heat run test of 3-phase transformer.	
	2ND			
	3RD			
	4TH	EXPERIMENT-5	Heat run test of 3-phase transformer.	
	5TH			
	6TH			
6TH	1ST	EXPERIMENT-6	OC and SC test of alternator and determination of	<u></u>
	2ND		regulation by synchronous impedance method.	
	3RD		2	

	4TH	EXPERIMENT-6	OC and SC test of alternator and determination of	
	5TH		regulation by synchronous impedance method.	
	6TH			
7TH	1ST	EXPERIMENT-7	Determination of regulation of alternator by direct	
	2ND	-	loading.	
	3RD			
	4TH	EXPERIMENT-7	Determination of regulation of alternator by direct	
	5TH	-	loading.	
OTU	6TH			
81H	151	EXPERIMENT-8	Parallel operation of two alternators and study load	
	ZND	-	sharing.	
	3RD		Derallal appretion of two alternators and study load	
	41H		Parallel operation of two alternators and study load	
	SIH	-	Sharing.	
отн	01H 1ST		Massurament of new or of a 2 phase load using two	
5111	2010		wattmeter method and verification of the result	
		-	using one 3-phase wattmeter.	
	4TH	EXPERIMENT-9	Measurement of power of a 3-phase Load using two	
	5TH	_	wattmeter method and verification of the result	
	6TH		using one 3-phase wattmeter.	
10TH	1ST	EXPERIMENT-	Connection of 3-phase energy meter to a 3-phase	
	2ND	10	load.	
	3RD]		
	4TH	EXPERIMENT-	Connection of 3-phase energy meter to a 3-phase	
	5TH	10	load.	
	6TH			
11TH	1ST	EXPERIMENT-	Study of an O.C.B	
	2ND	11		
	3RD			
	4TH	EXPERIMENT-	Study of an O.C.B	
	5TH	11 		
40711	6TH			
121H	151	EXPERIMENT-	Study of induction type over current / reverse power	
	2ND		relay.	
	3RD		Study of industion two over every the former of	
			relay	
			Telay.	
13TH	1ST	EXPERIMENT-	Study of Buchholz's relay	
	2ND	13		
	3RD	1		
	4TH	EXPERIMENT-	Study of Buchholz's relay.	
	5TH	13	. ,	
	6TH	1		
14TH	1ST	EXPERIMENT-	Study of an earth fault relay.	
	2ND	14		

	3RD		Study of an earth fault relay.	
	4TH	EXPERIMENT-	Study of an earth fault relay.	
	5TH	14		
	6TH			
15TH	1ST	EXPERIMENT	Sessional	
	2ND			
	3RD			
	4TH	EXPERIMENT	sessional	
	5TH			
	6TH			