ACADEMIC LESSON PLAN OF WINTER 2022

Discipline: ELECTRICAL	Semester:5 [™] Sem(G1) (Sec- A)	Name of the Teaching Faculty: Amit Kumar Bisoyi and Biswanita Sahu
Subject: ELECTRICAL Machine Lab – II	No. of days/per week class allotted: 2p(3hr)/week	Semester From: 15 th Sept. 2022 to 22 nd Dec 2022 No. of Weeks: 15 weeks
1 st	1 st	EXP-1. Study of Direct on Line starter, Star-Delta starter, connection and running a 3-phase Induction motor and measurement of starting current (cont)
	2 nd	EXP-1. Study of Direct on Line starter, Star-Delta starter, connection and running a 3-phase Induction motor and measurement of starting current
2 nd	1 st	EXP-2. Study of Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current(cont)
	2 nd	EXP-2. Study of Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current
3 rd	1 st	EXP-3. Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor(cont)
	2 nd	EXP-3. Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor
4 th	1 st	EXP-4. Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor (cont)
	2 nd	EXP-4. Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.
5 th	1 st	EXP-5. Heat run test of 3-phase transformer(cont)
5	2 nd	EXP-5. Heat run test of 3-phase transformer
cth	1 st	EXP-6. OC and SC test of alternator and determination of regulation by synchronous impedance method. (cont)
6 th	2 ^{nd.}	EXP-6. OC and SC test of alternator and determination of regulation by synchronous impedance method.
7 th	1st	EXP-7. Determination of regulation of alternator by direct loading (cont)
	2 nd	EXP-7. Determination of regulation of alternator by direct loading
8 th	1 st	EXP-8. Parallel operation of two alternators and study load sharing(cont)
	2 nd	EXP-8. Parallel operation of two alternators and study load sharing
9 th	1 st	EXP-9. Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3-phase wattmeter(cont)
	2 nd	EXP-9. Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3-phase wattmeter
10 th	1 st	EXP-10. Connection of 3-phase energy meter to a 3-phase load (cont)
	2 nd	EXP-10. Connection of 3-phase energy meter to a 3-phase load
11 th	1 st 2 nd	EXP-11. Study of an O.C.B. (cont) EXP-11. Study of an O.C.B.
12 th	1 st	EXP-12. Study of induction type over current / reverse power relay

		(cont)
	2 nd	EXP-12. Study of induction type over current / reverse power relay
13 th	1 st	EXP-13. Study of Buchholz's relay(cont).
	2 nd	EXP-13. Study of Buchholz's relay.
14 th	1 st	EXP-13. Study of Buchholz's relay.
	2 nd	EXP-14. Study of an earth fault relay (cont)
15 th	1 st	EXP-14. Study of an earth fault relay (cont)
	2 nd	EXP-14. Study of an earth fault relay

Anuit Kumar Prisozi

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF WINTER 2022

Discipline:	Semester:5 [™] Sem	Name of the Teaching Faculty: Amit Kumar Bisoyi and Biswanita
ELECTRICAL	(G2 Sec- A)	Sahu
Subject:	No. of days/per	Semester From: 15 th Sept. 2022 to 22 nd Dec 2022
ELECTRICAL	week class	No. of Weeks: 15 weeks
Machine Lab –	allotted:	
П	2p(3hr)/week	
	1 st	EXP-1. Study of Direct on Line starter, Star-Delta starter,
		connection and running a 3-phase Induction motor and
- c+		measurement of starting current (cont)
1 st	2 nd	EXP-1. Study of Direct on Line starter, Star-Delta starter,
		connection and running a 3-phase Induction motor and
		measurement of starting current
	1 st	EXP-2. Study of Auto transformer starter and rotor resistance
	-	starter connection and running a 3-phase induction motor and
		measurement of starting current(cont)
2 nd	2 nd	EXP-2. Study of Auto transformer starter and rotor resistance
	2	starter connection and running a 3-phase induction motor and
		measurement of starting current
	1 st	EXP-3. Study and Practice of connection & Reverse the
	L L	direction of rotation of Three Phase Induction motor(cont)
3 rd	2 nd	EXP-3. Study and Practice of connection & Reverse the
	Z	direction of rotation of Three Phase Induction motor
 	1 st	
	L	EXP-4. Study and Practice of connection & Reverse the
4 th	2 nd	direction of rotation of Single Phase Induction motor (cont)
	Zna	EXP-4. Study and Practice of connection & Reverse the
	a st	direction of rotation of Single Phase Induction motor.
5 th	1 st	EXP-5. Heat run test of 3-phase transformer(cont)
	2 nd	EXP-5. Heat run test of 3-phase transformer
	1 st	EXP-6. OC and SC test of alternator and determination of
6 th		regulation by synchronous impedance method. (cont)
	2 ^{nd.}	EXP-6. OC and SC test of alternator and determination of
		regulation by synchronous impedance method.
	1st	EXP-7. Determination of regulation of alternator by direct
7 th		loading (cont)
,	2 nd	EXP-7. Determination of regulation of alternator by direct
		loading
	1 st	EXP-8. Parallel operation of two alternators and study load
8 th		sharing(cont)
U	2 nd	EXP-8. Parallel operation of two alternators and study load
		sharing
	1 st	EXP-9. Measurement of power of a 3-phase Load using two
		wattmeter method and verification of the result using one 3-
9 th		phase wattmeter(cont)
9	2 nd	EXP-9. Measurement of power of a 3-phase Load using two
		wattmeter method and verification of the result using one 3-
		phase wattmeter
	1 st	EXP-10. Connection of 3-phase energy meter to a 3-phase load
10 th		(cont)
-	2 nd	EXP-10. Connection of 3-phase energy meter to a 3-phase load
4		

	2 nd	EXP-11. Study of an O.C.B.
	1 st	EXP-12. Study of induction type over current / reverse power
12 th		relay (cont)
12	2 nd	EXP-12. Study of induction type over current / reverse power
		relay
13 th	1 st	EXP-13. Study of Buchholz's relay(cont).
13	2 nd	EXP-13. Study of Buchholz's relay.
14 th	1 st	EXP-13. Study of Buchholz's relay.
14	2 nd	EXP-14. Study of an earth fault relay (cont)
15 th	1 st	EXP-14. Study of an earth fault relay (cont)
15	2 nd	EXP-14. Study of an earth fault relay

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