

Discipline – Electrical Engg	Semester 5th	NAME OF THE TEACHING FACULTY- RINA RANI SOREN, LBA(ELECT.)	
SUB-EM LAB-II	No Of Days Per Week Class Alloted- 4 P	SEMESTER FROM 01.09.2020 TO 01.03.2021	
WEEK	CLASS DAY	PRACTICALS	STATUS
1 st WEEK	1 ST day 2 nd day 3 rd day 4 th day	1.Study of (Manual and Semi automatic) Direct on Line starter, Star-Delta starter, connection and running a 3-phase Induction motor and measurement of starting current	
2 nd WEEK	1 ST day 2 nd day 3 rd day 4 th day	2.Study of (Manual and Semi automatic) Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.	
3 rd WEEK	1 ST day 2 nd day 3 rd day 4 th day	3.Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor.	
4 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	4. Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.	
5 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	5. Heat run test of 3-phase transformer.	
6 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	6. OC and SC test of alternator and determination of regulation by synchronous impedance method.	
7 th WEEK	1 ST day 2 nd day	7.Determination of regulation of alternator by direct loading.	

	3 rd day 4 th day		
8 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	8. Parallel operation of two alternators and study load sharing	
9 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	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 WEEK	1 ST day 2 nd day 3 rd day 4 th day	10. Connection of 3-phase energy meter to a 3-phases	
11 th WEEK	1 ST day 2 nd day 3 rd day 4 th day	11. Study of an O.C.B. e load.	
12 th week	1 ST day 2 nd day 3 rd day 4 th day	12. Study of induction type over current / reverse power relay.	
13 th week	1 ST day 2 nd day 3 rd day 4 th day	13. Study of Buchholz's relay.	
14 th week	1 ST day 2 nd day 3 rd day 4 th day	14. Study of an earth fault relay	

15 th week	1 ST day 2 nd day 3 rd day 4 th day	REVISION FOR SEMESTER EXAM	
16 th week	1 ST day 2 nd day 3 rd day 4 th day	REVISION FOR SEMESTER EXAM	

