

YEAR/ SEM : II/II B.TECH (R-16)  
LAB CODE/LAB NAME : EE407ES ELECTRICAL MACHINES-II LAB  
INCHARGE (TEACHER/LAB STAFF) : K DAVID KIRAN/ K NARESH

CYCLE –I

1. O.C. & S.C. Tests on Single phase Transformer
2. Sumpner's test on a pair of single phase transformers
3. No-load & Blocked rotor tests on three phase Induction motor
4. Regulation of a three –phase alternator by synchronous impedance & m.m.f. methods
5. V and Inverted V curves of a three—phase synchronous motor.
6. Equivalent Circuit of a single phase induction motor
7. Determination of  $X_d$  and  $X_q$  of a salient pole synchronous machine
8. Load test on three phase Induction Motor

CYCLE –II

9. Separation of core losses of a single phase transformer
10. Efficiency of a three-phase alternator
11. Parallel operation of Single phase Transformers
12. Regulation of three-phase alternator by Z.P.F. and A.S.A methods
13. Heat run test on a bank of 3 Nos. of single phase Delta connected transformers
14. Measurement of sequence impedance of a three-phase alternator.
15. Vector grouping of Three Transformers
16. Scott Connection of transformer

S.No	Equipment	Quantity	Specifications	Image
1	OC & SC TEST, & SUMMERS TEST	4	1-Phase Transformer	
2	BLOCKED ROTOR TEST & BREAK TEST	2	INDUCTION MOTOR	
3	ALTERNATOR & ZPF/ASA METHOD	2	AC GENERATOR	
4	Xd and Xq method	1	Salient pole synchronous machine	
5	SCOTT CONNECTIONS	2	1-Phase Transformer	

