## **AC MACHINES LAB-II**

3/4 EEE

## **V-Semester**

**Code: 14EEL502** 

## LIST OF EXPERIMENTS:

- 1. Regulation of alternator by synchronous impedance method
- 2. Regulation of alternator by ZPF method
- 3. Regulation of alternator by MMF method
- 4. Synchronization of alternator with infinite bus bar-current Locus diagram
- 5. V and inverted V curves of synchronous motor
- 6. Synchronous motor performance with constant excitation
- 7. Separation of losses in single phase transformer
- 8. Measurement of  $X_d$  and  $X_q$  of a three phase alternator
- 9. Load test on Universal motor
- 10.Measurement of  $X_d$ " and  $X_q$ " of a three phase alternator
- **11.Power factor correction using synchronous motor**
- **12.Sumpner's test on 3-** $\phi$  transformer
- 14. Characteristics of phase shifting transformer
- 15.Load test on 3-¢ alternator

Note: Minimum 10 Experiments should be conducted

## Bapatla Engineering College: Bapatla (AUTONOMOUS)

Department of Electrical & Electronics Engineering