

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

I Yr –I & II SEM

BASIC ELETRICAL ENGINEERING LAB

1. Verification of Ohm's Law
2. Verification of Kirchhoff's Voltage Law (KVL) and Kirchhoff's Current Law (KCL)
3. Verification of Superposition Theorem
4. Verification of Thevenin's Theorem
5. Verification of Norton's Theorem
6. Calculations and verification of impedance and current of RL and RC series circuits
7. Transient response of series RL and RC circuits for DC excitation
8. Measurement of voltage, current, and real power in primary and secondary circuits of a single-phase transformer
9. Load test on a single-phase transformer to calculate efficiency and regulation
10. Performance characteristics of a DC shunt motor
11. Torque–speed characteristics of a three-phase induction motor
12. No-load characteristics of a three-phase alternator

Any Ten experiments should be conducted