

**COURSE TITLE** : **ELECTRICAL TECHNOLOGY LAB**  
**COURSE CODE** : **320**  
**COURSE CATEGORY** : **B**  
**PERIODS/WEEK** : **3**  
**PERIODS/SEMESTER** : **54**  
**CREDITS** : **2**

**TOPIC & CONTENT DETAILS**

Study of measuring instruments – Ammeter – Volt meter – Watt meter etc. – Used in AC and DC circuits.

Study of starters – 2 point, 3 point, DOL, star delta etc.

Study of CRO – observe wave form

Measurement of low, medium and high resistor values by volt meter – ammeter method.

Measurement of carbon resistor values using multimeter and compare it with colour code values.

Load test on DC series motor to plot Output vs. Efficiency, Torque (T)/Speed(N) curves

Load test on DC shunt motor and plot Output vs. Efficiency, Torque (T)/Speed(N) curves

Overall efficiency of a DC Motor Generator set and to plot Efficiency curve

Load test on 3 phase squirrel cage induction motor, plot output vs. efficiency, output vs. speed output vs. slip

OC and SC test on single phase transformer and pre-determine the efficiency and regulations of a particular load.

V-I characteristics of semi conductor Diode Rectifier – half wave and full wave, Measure the Output and compare it using CRO.

Understand the logic functions using logic gate.