Diploma, Anna University-UG, PG., HSC & SSLC

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32047 - ELECTRICAL DRIVES AND CONTROL PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

- Identify starters for different motors.
- Study and prepare earthing
- Test the characteristics of DC and AC machines.
- Identify and select controlling elements.
- Explore the performance of ELCB, MCB.
- Design regulated power supplies.
- Identify display devices LED, 7 segment LED, LCD.
- Identify the drive circuit for special motors.
- Test the speed control circuit of the special motors

LIST OF EXPERIMENTS

Part A:

- 1. Verification of Ohm's Law
- 2. Testing of DC starters 3 point and 4 point starter
- 3. Load test on DC shunt motor
- 4. Testing of AC starters DOL, star Delta starter
- 5. Load test on single phase induction motor
- 6. Load test on three phase squirrel cage motor
- 7. Testing of relays, contactors, push buttons and limit switch
- 8. Connection and Testing of MCB, ELCB

Part B

- 1. Construction and testing of Half wave and Full wave rectifier.
- 2. Construction and testing of IC voltage regulator using IC 7805.
- Verification of truth tables for logic gates.
- 4. Verification of universal gates.
- 5. Identification and testing of display devices- LED, 7 segment LED, Laser diode.
- 6. Testing of Stepper motor drive.
- 7. Testing of Servo motor drive.