34045 - INDUSTRIAL ELECTRONICS & COMMUNICATION ENGINEERING PRACTICAL

LIST OF EXPERIMENTS

INDUSTRIAL ELECTRONICS PRACITCAL

1. Phase control characteristics of SCR and testing a commutation circuit.
2. Construct a Lamp dimmer using TRIAC (in Bread Board Only)
3. Construct and test a MOSFET based PWM chopper circuit
4. Construct and test an IC based buck converter using PWM
5. Write and implement a simple ladder logic program using digital inputs and outputs for PLC
6. Write and implement a simple ladder logic program for interfacing a lift control with PLC.
7. Write and implement a simple ladder logic program for interfacing a conveyer control with PLC
8. Write and implement a simple ladder logic program using timer and counter with branching and subroutines with PLC.

COMMUNICATION ENGINEERING PRACTICAL

1. Simulate the circuit of AM Modulation and Demodulation using the simulation tool like PSPICE/ multisim/ orcad/ tina.
2. simulate the circuit of FM Modulation and Demodulation using the simulation tool like PSPICE/ multisim/ orcad/ tina.
3. Construct & test Symmetrical t & Pi attenuators.
4. 4 Construct & test Constant K Passive Low Pass & High Pass Filter.
5. Construct & test PAM Generation circuit & Detection circuit.
6. Construct & test PCM Transmitter & Receiver circuit.
7. Construct & Test a three way cross over network.