

Name of the Lab : Power Electronics And Drives Laboratory

EE8661(EVEN Semester)

Regulation 2017

LIST OF EXPERIMENTS (Recommended as per Anna University)

1. Gate Pulse Generation using R, RC and UJT.
2. Characteristics of SCR and TRIAC
3. Characteristics of MOSFET and IGBT
4. AC to DC half controlled converter
5. AC to DC fully controlled Converter
6. Step down and step up MOSFET based choppers
7. IGBT based single phase PWM inverter
8. IGBT based three phase PWM inverter
9. AC Voltage controller
10. Switched mode power converter.
11. Simulation of PE circuits (1 Φ & 3 Φ semi converters, 1 Φ & 3 Φ full converters, DC-DC converters, AC voltage controllers)
12. Characteristics of GTO & IGCT
13. Characteristics of PMLD motor

TOTAL: 60 PERIODS

CONTENT BEYOND THE SYLLABUS

1. Simulation of single cyclo converter
2. Resonant DC to DC converter

Estd - 2001