

DEPARTMENT OF ELECTRICAL ENGINEERING INDUSTRIAL POWER LABORATORY-4

DISTRIBUTED ENERGY RESEARCH LAB

List of Compulsory Experiments:

1. STATCOM and FACTS based Experiments
(Used for -EE6491-M.Tech Industrial Power and Automation, EE6291-M. Tech Power System)
 - a) Reactive Power Compensation using solar and wind based STATCOM.
 - b) Power Factor Compensation and Voltage Regulation using three phase FACTS controller.
2. AC Servo Motor Control using dSPACE
(Used for EE6491-M.Tech Industrial Power and Automation, EE6391-M. Tech Power Electronics)

List of Desirable Experiments:

1. Measuring Voltage and Current of the Microgrid using NI-myDAQ.
2. Solar, Wind based Load Voltage Regulation using cRIO.
3. Modeling and Simulation of FACT devices.