Electrical Simulation Lab

List of Experiments

1. DC Transient response of series parallel RLC circuits.
2. Single phase full converter using RLE loads.
3. Single phase AC voltage controller using RLE Loads.
4. Single phase full bridge inverter with PWM controller.
5. Stability analysis (Bode, Root Locus, Nyquist) of Linear Time Invariant system.
6. State space model for classical transfer function.
7. Linear system analysis (Time domain analysis, Error analysis).
8. Developing a model of single phase rectifier.
9. Developing a model of single phase inverter.
10. Developing a model for single area load frequency problem.
11. Single phase half controlled converter using R and RL load.
12. Three phase fully controlled converter using R and RL load.
13. Fault analysis of power system.
14. Transient stability studies of a power system.
15. Load flow studies of power system.