

CONTROLSYSTEMS LAB

List of Experiments

EEE-3/4 II Sem

1. Time response of Second order system
2. Characteristics of Synchronos
3. Programmable logic controller – Study and Verification of truth tables of logic gates, simple Boolean expressions and application of speed control of motor.
4. Effect of feedback on DC servo motor.
5. Transfer function of DC motor.
6. Effect of P, PD, PI, PID Controller on a second order systems.
7. State space model for classical transfer function using MATLAB – Verification
8. Simulation of Transfer functions using operational amplifier

Any of the two experiments from the following list

9. Lag and lead compensation – Magnitude and phase plot
10. Transfer function of DC generator
11. Temperature controller using PID
12. Characteristics of magnetic amplifiers
13. Characteristics of AC servo motor
14. Root locus plot, Bode Plot from MATLAB