

Faculty of Engineering & Technology

Control Systems

Information :

Course Code : EED302

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Communication and Computer Engineering

Description :

Introduction to feedback control systems. Block diagram reduction. Steady-state error. Transient response analysis: maximum overshoot, settling time, rise time and peak time. System stability and Routh's criterion. Root-Locus analysis: asymptotes, breakaway points, angles of departure. Design of PID controller using root-locus. Frequency response analysis techniques and Bode diagrams. Design of series compensators using Bode Diagrams. Applications using Matlab.