

Faculty of Engineering & Technology**Control Systems****Information :****Course Code :** EED302**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Electrical Power Engineering**Instructor Information :**

Title	Name	Office hours
Professor	Said Fouad Mohamed Mekhemar	
Assistant Lecturer	Mohamed Essam Abd El Aziz Abd El Aal	

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.