Faculty of Engineering & Technology

Control Systems

Information :

Course Code : EED302   **Level** : Undergraduate   **Course Hours :** 3.00- Hours

Department : Computer & Intelligent Systems 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.

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