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	Ahmed Moreab Hussien Mohamed	
Assistant Lecturer	Mohamed Essam Abd El Aziz Abd El Aal	
Assistant Lecturer	Mohamed Abdallah Mahmoud Shaheen	

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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