Mohamed Sathak AJ College of engineering

Department of Electronics and Communication Engineering Innovative Teaching Methods

Activity Title	Group Project-Simulation				
Faculty Name/Department	Mr.N.Suresh / EEE				
Mapped Course Name & Code	EC 3351 Control Systems				
Date	28/10/2023				
Benefitted Students (Year / Sem / Dept)	II/III/ECE				
Торіс	Frequency Response Analysis				
Description	Projects are given to students to enhance their design and development skills. Frequency Response Analysis of the system is given to students as group projects. They carry out the analysis using simulation platform (MATLAB).				
Course Outcomes (CO)	CO3: The student will be able to illustrate the frequency response characteristics of open loop and closed loop system response				
Performance Indicator (PI)	1.4.1				
Mail ID (for review)	eee.suresh@msajce-edu.in				
Activity Photos	Bode Diagram (gp) epointing (Geo) -270 10-1 100 Frequency (rad/s)				

Topics/ Questions:

- 1. Frequency response analysis by bode plot for the transfer function 1
- 2. Frequency response analysis by bode plot for the transfer function 2
- 3. Frequency response analysis by bode plot for the transfer function 3
- 4. Frequency response analysis by bode plot for the transfer function 4
- 5. Frequency response analysis by bode plot for the transfer function 5
- 6. Frequency response analysis by bode plot for the transfer function 6
- 7. Frequency response analysis by bode plot for the transfer function 7

Marks:

	Reg No.	Торіс	Marks		
Group Name			Theoretical Calculation (10)	Simulation (10)	Total (20)
A	Reg No 1-5	Frequency response analysis by bode plot for the transfer	10	9	18
		function 1			
В	Reg No 6-10	Frequency response analysis by bode plot for the transfer function 2	10	9	19
C	Reg No 11-15	Frequency response analysis by bode plot for the transfer function 3	10	10	20
D	Reg No 16-20	Frequency response analysis by bode plot for the transfer function 4	10	9	19
E	Reg No 21-26	Frequency response analysis by bode plot for the transfer	10	10	20

		function 5			
F	Reg No 27, 28,30, 31,32,33	Frequency response analysis by bode plot for the transfer function 6	10	9	19
G	Reg No.34, 35,36, Shahul Hameed, Dinesh K N. Karthikeyan S	Frequency response analysis by bode plot for the transfer function 7	10	9	19

Outcome:

The student will be able to illustrate the frequency response characteristics of open loop and closed loop system response