

LESSON PLAN(SUMMER-2026)

VENUS GROUP OF EDUCATIONAL & RESEARCH INSTITUTES,BAHANAGA,BALASORE-756042

Discipline:Electrical Engineering		Semester: 6th	Name of the teaching faculty: Prakas Chandra Dash
Subject-Linear Control System		No of days per week class allotted: 03	Semester from date:22/12/2025 to date:18/04/2026, No of weeks: 15
1	1st	1st	Feedback principle
2		2nd	Transfer function of LTI systems
3		3rd	Mechanical and Electromechanical systems
4	2nd	1st	Force voltage and force current analog
5		2nd	Block diagram representation
6		3rd	Block diagram reduction
7	3rd	1st	Signal flow graph
8		2nd	Mason's gain formula
9		3rd	Characteristic equation
10	4th	1st	DC and AC servo motors
11		2nd	Synchro - gyroscope
12		3rd	Stepper motor
13	5th	1st	Tachogenerator
14		2nd	Time domain analysis of control systems
15		3rd	Transient and steady state responses
16	6th	1st	Time domain specifications first order system
17		2nd	Time domain specifications first order system
18		3rd	Step responses of first order system
19	7th	1st	Step responses of second order system
20		2nd	Steady-state error analysis
21		3rd	Static error coefficient of type 0 system
22	8th	1st	Static error coefficient of type 1, 2 system
23		2nd	Dynamic error coefficients
24		3rd	Concept of stability
25	9th	1st	Time response for various pole locations
26		2nd	Stability of feedback system
27		3rd	Routh's stability criterion

28	10th	1st	General rules for constructing Root loci
29		2nd	General rules for constructing Root loci
30		3rd	General rules for constructing Root loci
31	11th	1st	Stability from root loc
32		2nd	Effect of addition of poles and zeros
33		3rd	Lag, Lead and Lead-Lag compensators
34	12th	1st	Nyquist stability criterion
35		2nd	Nichols chart
36		3rd	Non-minimum phase system
37	13th	1st	Transportation lag
38		2nd	Frequency domain specification
39		3rd	Frequency domain specification
40	14th	1st	Analysis based on Bode plot
41		2nd	Analysis based on Bode plot
42		3rd	Analysis based on Bode plot
43	15th	1st	Log magnitude vs. phase plot
44		2nd	State space mode
45		3rd	State transition Matrix