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| **Sl.No.** | **Syllabus** | **Curriculum** | **Deployment Strategy and Tool** | **Cross-cutting issues integrated** | **PO, PSO and CO** |
| 1. | Control System | * Understand various terminologies and definitions for control systems.
* Learn how to find the mathematical model of mechanical, electrical systems, Electromechanical systems, Analogous Systems.
* learn how to represent system by transfer function and block diagram reduction method
* Know how to find time response from the transfer function
* To understand stability analysis of system using Root locus, bode plot, polar plot, and Nyquist plot.
 | 1. Chalk and Talk method
2. PPT
 | * Environment and sustainability.
 | * PO1, PO2,PO3
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| * PSO1
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| * CO1: Develop the mathematical model of mechanical and electrical systems, electromechanical systems, and analogous systems.
* CO2: Develop transfer function for a given control system using block diagram reduction techniques and signal flow graph method.
* CO3: Analyze and Determine the transient and steady state behaviour of a first and second order feedback control system using standard test signals.
* CO4: Analyze the system stability in time and frequency domains.
* CO5: Explain compensating networks and solve the equations using state variable analysis.
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