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| **Sl.No.** | **Syllabus** | **Curriculum** | **Deployment Strategy and Tool** | **Cross-cutting issues integrated** | **PO, PSO and CO** |
| 1. | Digital Communication | * Understand the mathematical representation of signal, symbol, and noise.
* Understand the concept of signal processing of digital data and signal conversion to symbols at the transmitter and receiver
* Compute performance metrics and parameters for symbol processing and recovery in ideal and corrupted channel conditions
* Compute performance parameters and mitigate channel induced impediments in corrupted channel conditions.
 | 1. Chalk and Talk method
2. PPT
 | * Environment and sustainability.
 | * PO1, PO2, PO3, PO4, PO5, PO6
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| * PSO1,PSO2,PSO3
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| CO1: Evaluating the in-phase and quadrature phase component of Band pass signalling. Simulation of different coding techniques to convert symbols into waveforms.CO2: Design receivers such as Correlation and matched filters for additive Gaussian noiseCO3: Explain different digital modulation schemes, and compare advantages/ Disadvantages of each as applied to baseband signal. Ability to simulate modulation techniques in communication systems using modern tool.CO4: Make use of adaptive equalization techniques in band limited channels to control the Inter Symbol Interference (ISI), CO5: Analyze and Simulate Performance of different spread spectrum techniques in communication system. |