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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | CRYPTOGRAPHY, NETWORK SECURITY AND CYBER LAW | 1 Students beginning to learn about cryptography will discover there are two primary methods to encrypt data: symmetric and asymmetric. In symmetric cryptography, the sender and the recipient of the data both use the same key to encrypt and decrypt the information.  2.Student will learn from network security following things   * Security essentials. * Cryptography. * Computer networks and security. * Application security. * Data and endpoint security. * Identity and access management. * Cloud security. * Cyber attach phases. | * Chalk and   Talk method   * PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO8:ETHICS  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
|  |  | PSO3: Successful |
|  |  | career and |
|  |  | entrepreneurship |
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|  |  | **CO1:Understand** the basics of cryptography and **Apply** mathematical background for cryptography.  **CO2:Design** and **Analyze** the cryptographic algorithms using public key and private key algorithms.  **CO3:Compare** various key management techniques and **analyse** IP Security protocols at network layer.  **CO4:Analyze** the various network attacks and security measures in cryptography  **CO5:Understand** the need of Cyber security and Cyber Laws |
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