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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | Storage Area Networks | 1.A storage area network (SAN) is a dedicated, independent high-speed network that interconnects and delivers shared pools of storage devices to multiple servers. Each server can access shared storage as if it were a drive directly attached to the server.  2.Rather than having several servers with various levels of hard drive utilization (one full, another half-empty), a SAN allows you to pool your storage and dynamically allocate exactly what each server requires. This means you'll spend less on drive for your servers and us the space on your SAN more efficiently.  3.NAS is often a single device made up of redundant storage containers or a redundant array of independent disks (RAID). SAN storage can be a network of multiple devices, including SSD and flash storage, hybrid storage, hybrid cloud storage, backup software and appliances, and cloud storage.  . | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Usage |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
|  |  | PSO3: Successful |
|  |  | career and |
|  |  | entrepreneurship |
|  |  | **CO1:Explain** key challenges in managing information and **develop** intelligent storage system using the different components.  **CO2:Explain** components of FC-SAN, NAS and virtualization in SAN and **choose** different protocols for storage networking.  **CO3:Determine** backup recovery, disaster recovery, business continuity and replication.  **CO4:Classify** Cloud computing models based on characteristics and its benefits and **describe** the different forms of storage automation and virtualization.  **CO5:Illustrate** the security in storage infrastructure and its management. |
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