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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | UNIX PROGRAMMING | * A shell script is a program that is used to perform specific tasks. Shell scripts are mostly used to avoid repetitive work. You can write a script to automate a set of instructions to be executed one after the other, instead of typing in the commands one after the other n number of times * Shell provides users with an interface and accepts human-readable commands into the system and executes those commands which can run automatically and give the program's output in a shell script. A Kernel is at the nucleus of a computer. It makes the communication between the hardware and software possible * The many advantages include easy program or file selection, quick start, and interactive debugging. A shell script can be used to provide a sequencing and decision-making linkage around existing programs, and for moderately sized scripts the absence of a compilation step is an advantage. | 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 |
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|  |  | **CO1:Explain** the architecture, and **Use** of basic commands and types in UNIX.  **CO2:Understand and Analyse** how to view and modify file permissions, **Implement** various connecting commands used in UNIX such as grep, egrep and also perform pattern matching and also **Design** various shell scripts for a given problem.  **CO3:Elucidate** UNIX File System and different UNIX File types and also **Implement** various process commands and process relationships  **CO4:Implement** Inter-process communications using the various methods like Pipes, FIFO and Message Queues  **CO5:Explain** the various UNIX signals with programs and Characteristics of Daemon Process. |
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