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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | UNIX AND SHELL 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  PO3:Design/Development Of Solutions  PO7:Environment And Sustainability |  |
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|  |  | PSO1:Professional Skills |
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|  |  | CO1 Explain multi user OS UNIX and its basic features  CO2 Interpret UNIX Commands, Shell basics, and shell environments  CO3 Design and develop shell programming, communication, System calls and terminology.  CO4 Design and develop UNIX File I/O and UNIX Processes.  CO5 Perl script writing |
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