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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  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO5:Modern Tool Usage  PO11:Project Management and Finance. |  |
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|  |  | PSO1:Professional Skills |
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|  |  | CO1:Demonstrate concepts and commands in UNIX  Design the directory layout of a typical UNIX system , maintain, secure UNIX directories and files. And use common editors to edit files  CO2:Demonstrate the Knowledge of engineering to use the various shell quoting mechanism appropriately  CO3:Create simple regular expressions using filters to define patterns with various commands.  CO4:Identify, analyze and formulate simple scripts to enhance basic command output  CO5:Apply Advanced Filter and Master Manipulator to design and develop menu- driven scripts. |
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