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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  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Usage  PO9:INDIVIDUAL AND TEAM WORK |  |
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|  |  | PSO1:Professional Skills |
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|  |  | CO1: Explain the architecture, and Use of basic commands and types in UNIX. |
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|  |  | CO2: Explain types of file and Implement various file processing commands used in UNIX. |
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|  |  | CO3: Describe the working of vi editor and Apply Regular expression to perform pattern matching using utilities viz, grep, and verities. |
|  |  | CO4: Analyse and Design various shell scripts and Perl scripts for a given problem.  CO5:Explain the process management using system calls UNIX environment. |
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