

SREENIVASA INSTITUTE of TECHNOLOGY and MANAGEMENT STUDIES

III MCA - I Semester

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16MCA217

UNIX LAB

Course Objectives:

- To Practice Basic Unix Commands for Files and Directories
- To Practice Vi editor and to know about awk
- To Explore Basic Shell Script Programs

Practice the Following commands in UNIX

1. Entering commands.
2. Common Commands for Files and Directories
3. Searching Files
4. More about Listing Files
5. Permission Commands
6. Commands for viewing Long Files, to Print Files
7. Editing with vi Editor
8. Finding Patterns in Files
9. Compressing and Packing Files
10. Counting Lines , words and File Size
11. Working with Columns and Fields
12. Sorting the Contents of Files
13. Comparing Files
14. Editing and Formatting Files
15. Working with Dates and Times
16. Performing Mathematical Calculations.
17. Standard input and Output (Redirection Commands)
18. awk Utilities.
19. Write a Shell Script that copies multiple files to a directory.
20. Write a Shell Script (small calculator) that adds, subtracts, multiplies and divides the given two integers. There are two division options: one returns the quotient and the other returns remainder. The Script requires 3 arguments : The operation to be used

and two integer numbers. The options are add(-a), subtract(-s), multiply(-m), quotient(-c) and remainder (-r).

21. Write a Shell Script that counts the number of lines and words present in a given file.
22. Write a Shell Script that displays the list of all files in the given directory.
23. Write a Shell Script to generate a Multiplication Table.
24. Write a Shell Script to reverse the rows and columns of a matrix.

Course Outcomes:

- Able to know and Execute the various Unix Commands
- Able to write and execute Shell Script Programs

SITAMS, CHITTOOR