# Lesson Plan

| **Discipline:** Computer Science & Engg. | **Semester:** Fourth (4th) | **Name of the Lab I/C:** Er Satabdi Palit |
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| **Subject:** Operating System Lab | **No. of days/week class allotted:** Three (3) | **Semester from Date:** 14.02.23 **to Date:** 23.05.23 **No. of Weeks:** 15 |
| **WEEK** | **CLASS DAY** | **PRACTICAL EXPERIMENTS** |
| 1st | 1st | Write a Shell script to print the command line arguments in reverse order. |
| | 2nd | Write a Shell script to check whether the given number is palindrome or not. |
| | 3rd | Review Class |
| 2nd | 1st | Write a Shell script to sort the given array elements in ascending order using bubble sort. |
| | 2nd | Write a Shell script to perform sequential search on a given array elements. |
| | 3rd | Review Class |
| 3rd | 1st | Write a Shell script to perform binary search on a given array elements. |
| | 2nd | Write a Shell script to accept any two file names and check their file permissions. |
| | 3rd | Review Class |
| 4th | 1st | Write a Shell script to read a path name, create each element in that path e.g: a/b/c i.e., 'a' is directory in the current working directory, under 'a' create 'b', under 'b' create 'c'. |
| | 2nd | |
| | 3rd | Review Class |

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| 5th | 1st | Write a Shell script to illustrate the case-statement. |
| | 2nd | |
| | 3rd | Review Class |
| 6th | 1st | Write a Shell script to accept the file name as arguments and create another shell script, which recreates these files with its original contents. |
| | 2nd | Write a Shell script to demonstrate Terminal locking. |
| | 3rd | Review Class |
| 7th | 1st | Write a Shell script to accept the valid login name, if the login name is valid then print its home directory else an appropriate message. |
| | 2nd | Write a Shell script to read a file name and change the existing file permissions. |
| | 3rd | Review Class |
| 8th | 1st | Write a Shell script to print current month calendar and to replace the current day number by '*' or '**' respectively. |
| | 2nd | Write a Shell Script to display a menu consisting of options to display disk space, the current users logged in, total memory usage, etc. ( using functions.) |
| | 3rd | Review Class |
| 9th | 1st | Write a C-program to fork a child process and execute the given Linux commands. |
| | 2nd | Write a C-program to fork a child process, print owner process ID and its parent process ID. |
| | 3rd | Review Class |

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| 10th | 1st | Write a C-program to prompt the user for the name of the environment variable, check its validity and print an appropriate message. |
| | 2nd | |
| | 3rd | Review Class |
| 11th | 1st | Write a C-program to READ details of N students such as student name, registration number, semester and age. Find the eldest of them and display his details. |
| | 2nd | |
| | 3rd | |
| 12th | 1st | Review Class |
| | 2nd | |
| | 3rd | |
| 13th | 1st | Review Class |
| | 2nd | |
| | 3rd | |
| 14th | 1st | Review Class |
| | 2nd | |
| | 3rd | |
| 15th | 1st | Review Class |
| | 2nd | |
| | 3rd | |