

# A Laboratory Manual for

**Linux Programming (17816)**

Semester – VI

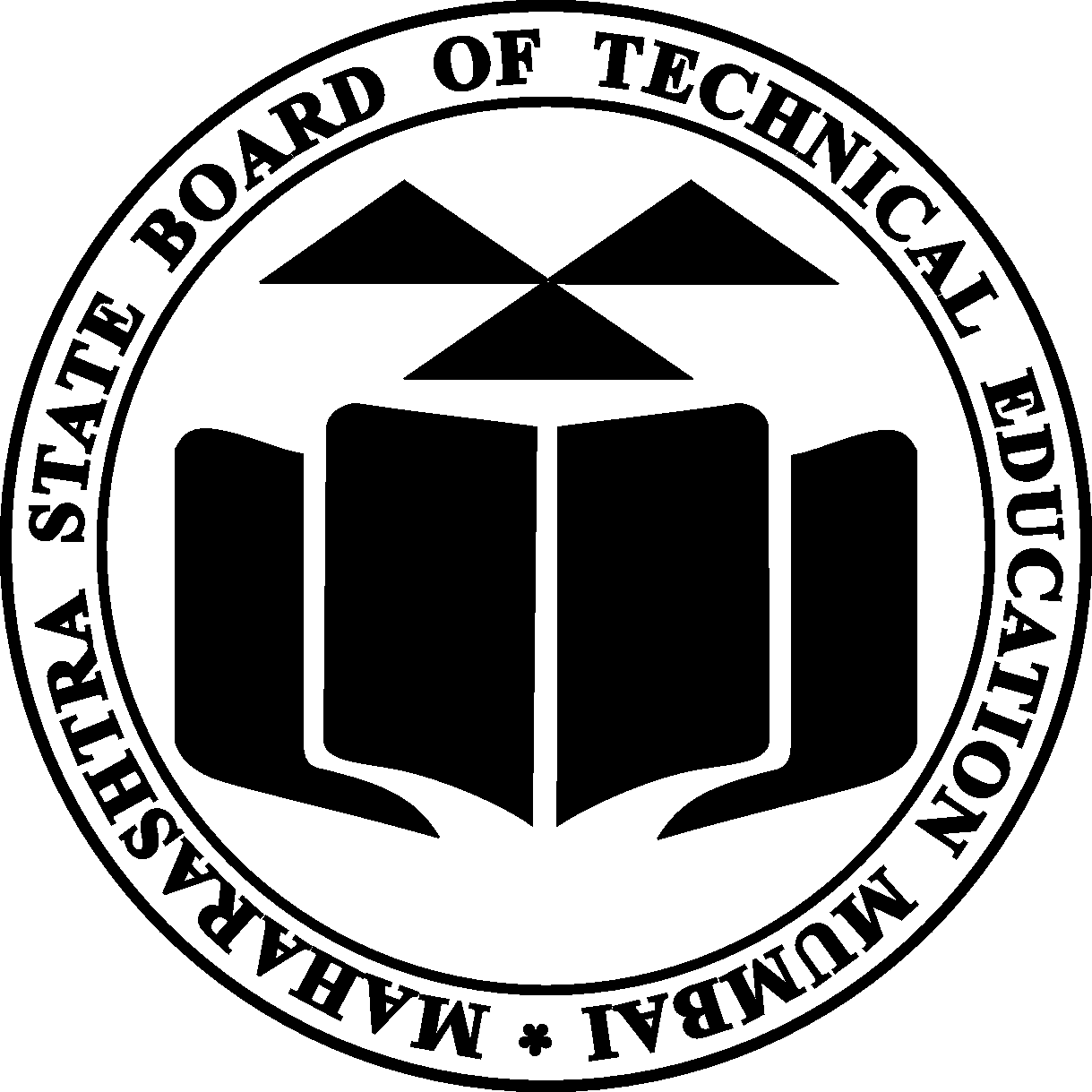
## Diploma in Computer Engineering Group

## (CO)

Maharashtra State

Board of Technical Education, Mumbai

ISO 9001:2000



# MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

## Certificate

#### This is to certify that Mr. / Ms. …………………………………………… Roll No. ………………...………...……, of Six Semester of Diploma in

Computer Engineering of Institute M. H. Saboo Siddik Polytechnic (Code :0002) has completed the term work satisfactorily in **Linux Programming (17816)**

for the academic year 2017 to 2018 as prescribed in the curriculum.

Place : …………….…. Enrolment No.: ……………….….

Date : ……………..…. Exam. Seat No. : …………….….

Sign :

Name :

**Subject Teacher Head of the Department Principal**

Seal of Institution

**LIST OF EXERCISE AND RECORD OF PROGRESSIVE ASSESSMENT SHEET FOR TERM WORK(TW)**

Academic Year :2017-18

Course & Code: CO-6-G

Name of Candidate:………………………

Semester: 6Th Semester

Name of Faculty: Mohammed Ali Sir

Subject Code: LPR (17816)

Enroll No:……………… Roll No:…………. Marks: Max : 50 Min: 20

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of the Exercise** | **Page No.** | **Date of Performance** | **Date of submi ssion** | **Mark 10** | **Sign. of Teacher and**  **Remarks** |
| 1 | Implement following commands with their options:   ps and kill.  df and du.   mount and umount.. | 1 |  |  |  |  |
| 2 | Implement grep and tar. |  |  |  |  |  |
| 3 | Implement setting of global and local environment variable, shell environment variables. |  |  |  |  |  |
| 4 | Create users, groups .Set permissions and ownership  View the /etc/passwd file and describe its syntax.  View the /etc/shadow file and describe its syntax.  View the /etc/group file and describe its syntax. |  |  |  |  |  |
| 5 | Implement setting up and releasing of special permissions (SGID, SUID and sticky bit) and state their effects. |  |  |  |  |  |
| 6 | Implement I/O Redirection and Pipes. |  |  |  |  |  |
| 7 | Write shell script to demonstrate use of conditional and loop control statements.  Write a shell script that shows effects of quotes on the Output of a variable.  Write a shell script that looks through all the files in the current directory for the string POSIX and then prints the name of these files to the standard output. |  |  |  |  |  |
| 8 | Write shell script to implement following test commands :  -For string comparisons.  -For numeric comparisons.  -For file comparisons |  |  |  |  |  |
| 9 | Write shell script that :   Uses command line parameters.   Counts number of parameters.   Implements shift command.   Implements processing option with parameter values. |  |  |  |  |  |
| 10 | Write shell script :   To implement redirection of Input script.   For redirecting file descriptors.   Creating input file descriptor. |  |  |  |  |  |
| 11 | Practice sed editor and gawk utility. |  |  |  |  |  |
| 12 |  Write a shell script using functions. Modify it to handle  function with parameters, function returning values.   Write shell script for handling array variables.   Write shell script that uses function returning true or false  result. |  |  |  |  |  |
| 13 | Write a shell script which checks disk space and store the  value to the variable and display it.   Write a shell script that tests connectivity with the PCs whose  IPs are provided as command line parameters. |  |  |  |  |  |
| **Total Marks Out of(13x10)=130** | | | | |  |  |
| **Marks Out of 50** | | | | |  |  |

**Name and Signature of Student Name and Signature of Faculty**