# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

| Course Code | Course Name | Teaching Scheme (Hrs/week) | | | Credits Assigned | | | |
|---|---|---|---|---|---|---|---|---|
| | | L | T | P | L | T | P | Total |
| TEITL505 | Open Source Technologies lab | -- | -- | 2 | -- | -- | 1 | 1 |
| | | Examination Scheme | | | | | | |
| | | ISE | | ESE | | | | Total |
| | | | | Practical | | Oral | | |
| | | 40 | | 20 | | - | | 60 |

| Pre-requisite Course Codes | TEITC505 (Open Source Technologies) |
|---|---|
| After successful completion of the course, student will be able to: | |

| Course Outcomes | CO1 | Demonstrate the installation process of open source operating systems. |
|---|---|---|
| | CO2 | Use different Linux commands to manage files and directories |
| | CO3 | Demonstrate responsibilities performed by the system administrator. |
| | CO4 | Identify and use UNIX/Linux utilities to create and manage Linux Processes |
| | CO5 | Use common decision constructs in shell scripts effectively |

| Exp. No. | Experiment Details | Ref. | Marks |
|---|---|---|---|
| 1 | Installation of open source operating systems | 3,4 | 5 |
| 2 | Exploring Linux file system commands-1: Viewing Files and Directories, Displaying the Contents of Text Files, Searching for Text Within Files, Finding Files and Linking Files. | 1,3,4 | 5 |
| 3 | Exploring Linux file system commands-2:I/O redirection, filters, awk. | 2,3,4 | 5 |
| 4 | Exploring Linux System Administration task and managing Linux processes | 2,3,4 | 5 |
| 5 | Techniques for Compression, System Backup, and Package management | 1,2,3,4 | 5 |
| 6 | Configure DHCP and FTP server | 2,3,4 | 5 |
| 7 | a. Configure Apache<br>b. Configure DNS server | 1,2,3,4 | 5 |
| 8 | a. Study and configure open vas, rcs, cvs, drupal<br>b. Program based on shell scripting | 1,2,3,4 | 5 |
| | | Total Marks | 40 |

**References:**
1. William E. Shotts Jr ,"*The Linux Command Line: A Complete Introduction*", 1st Edition
2. Peter Seebach, "*Beginning Portable Shell Scripting: From Novice to Professional (Expert's Voice in Open Source) Paperback*" – November 20, 2008 ,
3. Jason W. Eckert*," Linux+ Guide to Linux Certification*".
4. Michael Turner ,"*Red Hat Linux Administration: A Beginner's Guide (Beginner's Guide)*", 1st Edition