CERTIFICATE COURSE IN LINUX ADMINISTRATION [CCLA]

Paper No.	Course Code	Course Name	University Examination	Total	Credits
	CCLI-01	Linux Internals	100	100	8
	CCLI-02	Shell Programming	100	100	8
	CCLI-03	Lab based on CCLI-01 and CCLI-02	100	100	8
		Total	300	300	24

SYLLABUS

CCLI-01

LINUX INTERNALS
1: Starting with Linux
2: Creating the Perfect Linux Desktop
3: Using the Shell
4: Moving around the Filesystem
5: Working with Text Files
6: Managing Running Processes
7: Writing Simple Shell Scripts
8: Learning System Administration
9: Installing Linux x
10: Getting and Managing Software
11: Managing User Accounts
12: Managing Disks and Filesystems
13: Understanding Server Administration
14: Administering Networking
15: Starting and Stopping Services
16: Configuring a Print Server r
17: Configuring a Web Server
18: Configuring an FTP Server
19: Configuring a Windows File Sharing (Samba) Server
20: Configuring an NFS File Server
21: Troubleshooting Linux
Part V: Learning Linux Security Techniques
22: Understanding Basic Linux Security
23: Understanding Advanced Linux Security
24: Enhancing Linux Security with SELinux
25: Securing Linux on a Network
26: Using Linux for Cloud Computing
27: Deploying Linux to the Cloud

CCLI-02

SHELL PROGRAMMING

1. Introduction
2. The Unix File System
3. Essential Unix Commands
4. I/O Redirection and Piping
5. The King of All Editors
6. Processes in Unix
7. Communication – Unix style
8. Shell Programming – The First Step
9. Taking Decisions
10. The Loop Control Structure
11. Shell Metacharacters
12. Tricks of The Trade
13. Shell Mischellany
14. System Administration
15. Shell Programming Project