

Linux Course Catalog – 30 Days

Day	Module	Topics Covered
1	Introduction to Linux	Overview of Linux, History of Linux, Linux Distributions, Installing Linux
2-3	Linux File System	Directory Structure, Files and Directories, Navigating the File System, File Permissions
4-5	Basic Linux Commands	pwd, ls, cd, cp, mv, rm, mkdir, touch, cat, more, less
6-7	File Management & Permissions	File Ownership, chmod, chown, chgrp, Understanding File Permissions
8-9	Text Editors	Using Nano and Vim, Editing Files, Searching within Files
10-11	Managing Users & Groups	Creating Users & Groups, User Authentication, Modifying Users, Group Management
12-13	Package Management	Using apt, yum, rpm, dpkg, Installing & Removing Software Packages
14-15	Process Management	Viewing Processes (ps, top, htop), Managing Processes (kill, nice, renice)
16-17	Disk Management	Disk Partitioning, Formatting, Mounting, and Unmounting Partitions, df, du, fdisk, lsblk
18	Networking Basics	IP Addressing, Network Interfaces, ifconfig, ip command, ping, netstat
19	Configuring Network Interfaces	Static and Dynamic IP Configuration, DHCP Client, Network Configuration Files
20-21	System Startup & Services	Boot Process, runlevels, Systemd, Managing Services with systemctl
22	Shell Scripting Basics	Introduction to Shell Scripting, Writing Simple Scripts, Variables, Input/Output
23-24	Advanced Shell Scripting	Conditional Statements, Loops, Functions, Script Debugging
25	Cron Jobs & Automation	Scheduling Tasks with cron, cron syntax, Managing cron jobs
26	Security Basics	User Authentication, sudo, Configuring Firewall (iptables, ufw), SELinux
27	Log Files & System Monitoring	Viewing Log Files (dmesg, /var/log), Using journalctl, Monitoring System Performance
28	Backup & Restore	Backup Tools (rsync, tar), Automating Backups with cron, Restore Files from Backups
29	Linux File Sharing & Network Services	NFS, Samba, SSH, FTP, SFTP, Setting up a File Server
30	Final Project & Certification	Hands-on Project (e.g., Setting up a Web Server, File Server, or Automating Tasks), Review, Final Exam & Certification