

Registered Office:



7-Way Lane, Ram Mohan Rai
Marg,
Lucknow - 226 001, India.
Tel/Fax : 91-522-2205664 /
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Course Content for Linux Administration & Networking

Course Duration: 3 Months

Total Fee: 11000 Rs.

-  **Lectures** : Every Saturday 2:00 – 5:00 P.M
 **Labs** : Thursday or Friday or Monday
 (One batch per day), 2:00 – 5:00 P.M

1. Introduction.....

- a. About Company
- b. About Professional Project Training
- c. Introduction of the Tools
- d. Some web topics like (Modem, ISDN, Communication Software, Internet Providers, Online Services, Internet Address, Domain name, Web browsers, FTP.

 **Lecture/Lab 1**

- Introduction to UNIX
 - UNIX Operating System Architecture
- Linux Operating System
- Users, Groups and Permissions
 - Examining Permissions

 **Lecture/Lab 2**

- Linux Installation
- Hard Disk Partition Details
- Linux File System
 - ext2 / ext3
- Dual Boot Installation

 **Lecture/Lab 3**

- Desktop Familiarization
 - Text and GUI Mode
 - Virtual Terminals
 - GNOME and KDE Desktop

 **Lecture/Lab 4 & 5**

- UNIX Shell
- UNIX Commands
- Shell Commands
 - File System Management
 - File Management and Viewing
 - Help, Job and Process Management
 - Network Management
 - System Management
 - User Management
 - Printing and Programming
 - Document Preparation
 - Miscellaneous

Corporate Office:

C/449, Oshiwara Industrial Centre,
New Link Road, Opp Oshiwara Bus Depot,
Goregaon(W), Mumbai - 400102, India.

Office:

347, Knickerbocker Ave
Brooklyn, New York 11237
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**Lecture/Lab 6**

- System Initialization and Services
 - Boot Sequence, Runlevels & Daemon Processes
- User Administration
 - User Creation/ Suspension & Deletion
 - Group Administration

Lecture/Lab 7

- Network Configuration
 - Configuration Utilities
 - Multiple NICs
- Task Schedulers
 - cron daemons
- Disk quota management
- Backup and Restore

Lecture/Lab 8

- Adding and Removing Software Packages
 - RPM Package Management
- Setting Printer
- System Monitoring
 - File System Analysis
 - System Log Files & Analysis
- System Troubleshooting
 - Filesystem Corruption and Recovery
 - Things to check: The X Window System
 - Service, Networking & Booting
 - The Rescue Environment
 - Recovery Runlevels, Boot Floppies

Lecture/Lab 9

- DHCP
 - Server setup
 - Client setup
- NIS
 - NIS Server setup
 - NIS Client setup

Lecture/Lab 10

- NFS
 - NFS Server & Client configuration
 - autofs implementation
- Samba Server
 - File & Print Service

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**Lecture/Lab 11**

- Basic Concept of DNS
 - Implementation of BIND
 - forward & reverse lookup
 - DNS Directives

Lecture/Lab 12

- Apache Web Server
 - Basic Configuration
 - Name based Virtual Hosting
 - Restriction through htaccess

Lecture/Lab 13

- Sendmail - Mail Server
 - Configuring mail service
 - SMTP Server
 - POP3 / IMAP Server

Lecture/Lab 14

- Proxy Server - Squid
 - ACL for restricting access

Lecture/Lab 15

- Linux System as a Router
 - Setup and configuration
 - Static Routing
- SELinux Configuration
- Firewall Using IPTables
 - Filter and NAT rules

Special Notes and Classes for Project help:

- (1). Time to Time e. Soft provides useful printed materials, FAQ's related to the technology.
- (2). Special classes taken by the Highly Experienced Software Professionals of e.Soft.
- (3). Gives Technical and HR Interview tips of the students and also take a Mock interview at the end of the Project.
- (4). Every Saturday we take a feedback of the Students regarding Project Status.

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