

**LINUX Course Content:35-40hours**

**Course Outline**

- What is Linux?
- Origins of Linux
- GPL
- Linux kernel
- Linux distributions
- Installing Linux
- Determining Desktop and Server specification.
- Step by step installing
- Gnome and command line environment.
- Multi-user Concepts
- Log in to LINUX
- Switching user sessions
- Gathering system information
- Getting help
- The Linux File System
- Linux file system features
- Disk usage and quotas
- File ownership and permissions
- Manipulating Files
- Directory and file manipulation
- File creation and removal
- Physical file structure
- Searching the file system
- Archiving and Compression
- Directory archive with tar
- The compress utility using gzip uzip
- Text Editing
- GNU Nano
- Basic vi
- Advanced vi
- Process Management and Job Control
- What is a process?
- Process creation and states
- Viewing processes
- Job control basics
- The Secure Shell (SSH)
- Secure shell
- Remote shells
- Transferring files
- Managing Software
- Downloading software
- FTP, yum and other utilities
- Installing software
- Using rpm
- Compiling and installing from source
- Installing RPM packages
- Printing

- Linux printer subsystems and standard print commands
- Mounting File Systems
- Filesystem concepts
- Mounting filesystems, NFS and SMB
- File system table and automating mounts
- Removable media.
- Linux networking and security
- Managing the network service
- Configuring the network interface
- Adding and maintaining network routes
- Configuring security using SELINUX and Iptables
- Building and maintainig servers
- Building DHCP server
- Building Mail server (SMTP using postfix)
- Building Ftp server
- Building Web server (apache)

