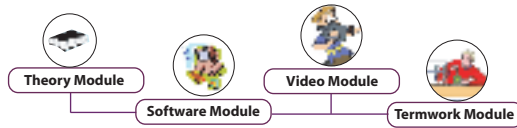


# Operating System (Linux & Unix)

Introduces Global e-Learning System in Education & Training in the form of Learning Resources with Computer Aided Instructions



System Requirement:- IBM-PC Compatible with Window-OS, 128 MB RAM/Multimedia Kit

## Theory module

**Features :** Theory, Figures, Photographs, Animations with controller, Highlighter tool, Note creation facility, Systematic page navigation, Printing facility, Access to Videos at appropriate locations.

## List of Topics Linux

### Installing Linux



Starting the installation, Configuring the mouse, Choosing the right security level, Allocating disk space, Creating drive partition, Choosing package to install, Setting the root password, Creating a user account, Setting automatic login, Installing the bootloader

### Configuring Hardware for Linux

The system control center, Customizing the boot menu, Setting up the sound card, changing screen resolution, Installing a local printer, Installing a scanner, Changing hardware settings.

### Exploring the KDE desktop



Introducing the KDE taskbar, Launching application, Changing the desktop background Customizing window appearance, setting event sounds, getting help.

### Touring the Linux file Structure

The Linux directory tree, Standard sub-directories, Navigating with file manager, navigating from the command line, File system dos and don'ts



### Handling Files



Creating a new text file, Moving file around, Deleting files, Making shortcuts, Accessing files in Window, Getting better compression

### Creating Graphics

Introducing the GIMP, Starting a new image, Using filters, Running scripts.

### Playing Sound and Video

Synthesizing sounds, playing recorded sounds, Watching Video, Burning CDs, Playing and ripping CDs.

## Using the Linux shell



What is the shell? Understanding run levels, Editing with Vi, Switching between virtual consoles, Moving between shell application, Viewing text files, Searching for a word, Printing from the shell.

## Scripting for the shell

using shell commands, Editing text streams, Substituting variables, Creating a shell script, branching a script, Looping a script, Handling input values.



## Extending your Linux system

Installing packages, removing packages, Download packages, Installing download, Linux resources, Switching between desktops. Installing other desktops.

## Unix

### The file System

Command line structure, Metacharacters, Creating new commands, Command arguments and parameters, program output as arguments, Shell variables, more on I/O redirection, looping in shell programs, Why a programmable shell?



### Filters



The grape family, Other filters, The stream editor sed, Good files and good filters, The awk pattern scanning and processing language.

### Shell Programming

Customizing the cal command, Which command is which, while and until loops, Replacing a file, The pick command, get and put: tracking file changes A lock back.



### Programming with Standard I/O

Standard input and output: vis, program arguments: vis version2, file access, A screen-at-a-time printer, On bugs and debugging, An interactive file comparison program,

### Unix System calls

Low-level I/O, File system: inodes, Processes, Signals and interrupts.

### Document Preparation

The ms macro package, The troff level, The tbl and eqn preprocessors, The manual page,