

LINUX OPERATING SYSTEM

- 1 Name: **Linux Operating System.**
 2. Sector: **Information & Communication Technology (ICT)**
 3. Code : **ICT 223**
 4. Entry Qualification: Std. X pass having completed Course on Computer Fundamentals, MS Word, Internet & Soft skills
 5. Terminal Competency: After completion of the training, participants would be able to know:
- The fundamentals of Linux Operating System.
 - The design architecture, command structures & utilities of the Linux Operating System.
 - The working of Linux Operating system for Networking and Programming.
6. Duration: 90 Hours.
 7. Contents given below.

Practical Competencies	Underpinning Knowledge(Theory)
Linux Fundamentals: Working of Linux Operating System in Text Mode and Graphics Mode. Study of files and directories of the operating system. Linux Basic and Advanced Commands. Creating file using Vi-editor, editing, saving file & quit from Vi editor.	Linux Fundamentals: Basics of Unix & Linux, Multi-user & Multitasking capabilities of Linux, change of password, the file types, structures of file system, and important directories of the file system.
Introduction to Shell Programming: Study of different run levels. Shell Programming-I Shell Programming -II.	Introduction to Shell Programming: What is Shell? Tools for working with Linux & Shell Programming. Function of a Shell, access permissions of file in Linux, editing files with Vi. Important commands related to Vi editor. Introduction to Bash Shell basics, Shell. Bash variables, basics scripts element (input/output), and simple Shell programs.
Networking and LAN commands: Study of KDE environment. Networking concepts and LAN commands. Introduction to administrative command like Create Users, Mapping, Assigning, etc.	Networking and LAN commands: Network Concept and classification; Local Area Network (LAN): LAN Topology, LAN Software / Operating System, LAN commands and elementary Administrative commands like ATTACH, BROADCAST, CAPTURE, LOGIN, LOGOUT, MAP, REVOKE, RIGHTS, SYSCON, SYSTIME.

LIST OF TOOLS & EQUIPMENT:

- Hardware:
 1. Server Computer (Latest configuration)
 2. Multimedia Nodes (Pre-loaded Windows 2000 or latest)
 3. Inkjet/Laser Printer
 4. UPS
- Software:
 1. Windows 2000
 2. Microsoft Office 2003 Professional
 3. Anti Virus Software (TVD/ Norton/Any popular brand)
 4. Internet connection