0944 - DIPLOMA IN INFORMATION TECHNOLOGY & ENGINEERING SEMESTER -IV

094442 - WINDOWS AND LINUX OPERATING SYSTEM

RATIONALE

The knowledge of this subject will enable the students to understand the concepts of Linux and its potential. The students will also get hand on experience of linux after undergoing this course.

DETAILED CONTENTS

Linux Operating System

1. Introduction

History of Linux and Unix, Linux Overview, Linux releases, open linux

2. Linux Commands and Filters

Mkdir, CD, rmdir, pwd, Is, who, whoami, cat, more, fail, head, concept of, mv, chmod, grep, wc, comm., split, sort, diff, kill, write, wall, merge, mail, news

3. Shell

The command line special characters and file arguments, standard input/output and redirection, pipes, redirecting and piping with standard errors, shell scripts, jobs.

4. Linux file Structure

Linux files, file structure, listing displaying and printing files, managing directories, file and directory operations.

5. Vi Editor

Vi editing commands, advanced Vi editing commands, line editing commands, options in Vi

6. System Administration

System management, managing users, installing and managing devices, floppy disk management, file system administration, backups.

Windows Network Operating System

7. Introduction

Windows operating system - its features and capabilities; comparison with OS hardware requirements for Windows 98, 2000 XP, Millennium,NT.

8. Control Program and Control Panel

Customizing desktop, installing, removing programs, managing your files and folders (creating, renaming, deleting, moving, copying etc.)

LIST OF PRACTICALS

Installing Linux

- 1. Creating and managing user accounts
- Practice on Linux commands.
- 3. Practice on vi commands
- 4. Write and execute at least 10 programmes in Linux using shells such as
 - Factorial of numbers
 - Even/odd numbers

- Fibonacci series
- Prime numbers
- Arrange of numbers
- Reverse of numbers
- Lower case to upper case
- Greatest of three numbers etc.
- 5. Installing and configuring X-windows
- 6. Create file and folder
- 7. Searching a file
- 8. Installation of device drivers
- 9. Creating user accounts
- 10. Customizing desktop
- 11. Setting monitor resolution

RECOMMENDED BOOKS

- 1. Linux The Complete Reference by Richard Peterson, Tata McGraw Hill, New Delhi
- 2. Linux Install and Configuration Black Book by Die Annleblanc and Issac Yates, IDG Books India Private Ltd., Delhi
- 3. Unleashed Linux by Tech Media Publishers.