

CORE COURSE –VII - INTRODUCTION TO UNIX & OPEN SYSTEM

Objective: *To teach students about the first modern operating system invented by academia namely UNIX and its current popular form namely LINUX; In this course, the student shall be exposed to various software modules of UNIX, programming of UNIX based on scripts and administration of UNIX systems.*

UNIT-I

Basic Concepts of UNIX- Understanding the Unix command - General purpose utilities – the vi/vim editor.

UNIT-II

The GNU emacs Editor - The File System – File attributes – The Shell.

UNIT-III

Simple Filters – The UNIX process - TCP/IP networking tools - The X window system – Electronic mail – The Internet.

UNIT-IV

Filters using grep & sed- Programming with awk – Customizing the environment - Shell programming - Advanced Shell programming including korn and bash – Perl.

UNIT-V

System administration I (File system) - System administration II (General duties) - TCP/IP Network Administration – Building the Internet Server.

TEXT BOOK:

1. **DAS SUMITABHA.**, YOUR UNIX –The ultimate guide, Tata McGraw Hill, 2006 (ISBN : 0-07-044687-3) [**Unit-1** :(Chapters 1,2,3,4); **Unit-2** : (Chapters 5,6,7,8); **Unit-3** (Chapters 9,10,11,12,13,14); **Unit-4** (Chapters 15,16,17,18,19,20) ; **Unit-5** (Chapters 21,22,23,24)]

REFERENCE BOOK:

1. Graham Steven, Shah Steve, Linux Administration – A beginner's guide, Third edition, Dreamtech press, 2003.
2. Sobell, Mark G. A practical guide to Linux, Pearson education, 2002 (ISBN 81-7808-690-5).
3. Morris Bach, The Design of UNIX operating system, Pearson education, 2004