

MAJOR BASED ELECTIVE – III - OPEN SOURCE TECHNOLOGY

UNIT I

Introduction: Shell Programming: Shell- Pipes and redirection-Shell as a programming language-Shell Syntax.

UNIT II

Working with Files: Files Structure – System calls and Device drivers – Library functions-Low-level File Access – The Standard I/O Library-File & Directory Maintenance-Scanning directories.

UNIT III

Reading from & Writing to the Terminal – Termios Structure- Terminal output-Detecting Keystrokes-Debugging: Types of errors-General debugging Techniques.

UNIT IV

Process Management: Process structure-Starting processes-Signals-Threads – Synchronization – Thread attributes-Canceling a Thread.

UNIT V

Internet Programming: CGI: Form elements= Sending information to the WWW server – Returning HTML to the client-An Application.

Text Book:

1. Beginning LINUX programming – Neil Mathew & Richard Stones – Shroff Publications & Distributors Pvt Ltd. 1999.
Chapters: Only relevant Topics from chapters 1-3,5,9,10-11,&20.