



MANGALORE UNIVERSITY

DEPARTMENT OF ELECTRONICS

MSc Electronics

ELS 407 - LINUX SHELL PROGRAMMING

Unit I

10 Hours

Learning The Shell

Introduction, What Is The Shell, Navigation, Exploring The System, Manipulating Files And Directories, Working With Commands, Redirection, Seeing The World As The Shell Sees It, Advanced Keyboard Tricks, Permissions, Processes,

Unit II

10 Hours

Configuration, The Environment, Common Tasks And Essential Tools

The Environment, A Gentle Introduction To vi, Customizing The Prompt, Common Tasks And Essential Tools, Package Management, Storage Media, Networking, Searching For Files, Archiving And Backup, Regular Expressions, Text Processing, Formatting Output, Printing, Compiling Programs

Unit III

10 Hours

Writing Shell Scripts

Writing Your First Script, Starting A Project, Top-Down Design, Flow Control: Branching

With if, Reading Keyboard Input, Flow Control: Looping With while / until, Troubleshooting, Flow Control: Branching With case, Positional Parameters, Flow Control: Looping With for, Strings And Numbers, Arrays, Exotica.

Textbook:

(1). "The Linux Command Line-A complete Introduction" -William E. Shotts, Jr, Second Edition, A LinuxCommand.org Book, 2013

References:

(1). "Advanced Bash-Scripting Guide-An in-depth exploration of the art of shell scripting"- Mendel Cooper, 2014

(2). "Mastering Linux Shell Scripting" -Andrew Mallett, Packt Publishing, 2015

(3). "Sams Teach Yourself Shell Programming in 24 Hours" - Sams Publishing, 1999