

# Loyola College Chennai -- MCA Dept.

## FOSS Elective-I : Introduction to FOSS

### (3<sup>rd</sup> semester)

#### 1. The FOSS Revolution

- A. History of Free/Open Source and BSD Software
- B. FOSS Licences (GPL, CC, ..)
- C. Living with Free Software
- D. Discussion few FOSS Projects
- E. Describe several GNU/Linux distributions and their tradeoffs
- F. Compare/Contrast several Different Distributions of GNU/Linux

#### 2. Installation and Configurations

- A. Installation Media
- B. Component Compatibility and Configuration Responsibilities
- c. Installation of GNU/Linux
- D. Start Up and Shut Down Sequences
- E. File System Hierarchy
- F. Basic System Navigation
- G. Super user and normal user
- H. Manage User Accounts
- I. Different Desktop Env
- J. Run Levels

#### 3. Using GNU/Linux

- A. Shell Commands
- B. Desktop Env and Applications (GNOME OR KDE)
- C. Networking commands (ssh, ifconfig, arp, ...)
- D. Connecting to Internet (ADSL, Cable, Usb Dongle, WiFi)
- E. Printing

#### 4. Web and File Server

- A. Configure Apache Web Server
- B. Configure NFS and Samba File Server
- C. Install and Configure intranet Proxy Server using Squid
- D. Build Intranet wiki site

#### 5. Programming

- A. Shell Scripting
- B. C, C++, Java Programming
- C. IDE (Eclisps, Anjutha)

## REFERENCES

#### **Text Book :**

1. "*Introduction to Linux Installation and Programming*" N.B.Venkateshwarlu (Ed);B S Publishers;2005.(An NRCFOSS Publication)

#### **Refere ce Books :**

- 2. *Running Linux* ,Fourth Edition, Matt Welsh, Matthias Kalle Dalheimer, Terry Dawson, and Lar Kaufman, O'Reilly Publishers, Deceber 2002, ISBN:0-596-00272-6.
- 3. *Linux Cookbook* ,First Edition, Carla Schroder, O'Reilly Cookbooks Series,

November 2004, ISBN:0-596-00640-3.

## **On-line materials**

1. *Open Sources:Voices from the pen Source Revolution* ,First Edition,January 1999,ISBN: 1-56592-582-3.  
URL:<http://www.oreilly.com/catalog/opensources/book/toc.html>
2. *The Linux Cookbook:Tips and Techniques for Everyday Use*,First Edition,Michael Stutz, 2001.URL:[http://dsl.org/cookbook/cookbook\\_toc.html](http://dsl.org/cookbook/cookbook_toc.html)
3. *The Linux System Administrators'Guide*,Lars Wirzenius,Joanna Oja,Stephen Stafford,and Alex Weeks,December 2003.URL:<http://www.tldp.org/guides.html>
4. *Using GCC* ,Richard Stallman et al.URL:<http://www.gnu.org/doc/using.html>
5. *An Introduction to GCC* ,Brian Gough.URL:<http://www.networktheory.co.uk/docs/gccintro/>
6. *Advanced Bash Scripting Guide*,Mendel Cooper,June 2005.  
URL:<http://www.tldp.org/guides.html>