

Introduction

The Free/Open Source Software (FOSS) movement stands for freedom of production, distribution, modification and use of software as per need, along with adherence to Free/Open standards of coding all information that is publicly exchanged.

Benefits of FOSS includes security, reliability, stability, affordability, open standards, localization features, obviation of piracy and IPR issues. FOSS is now over a quarter century old and well established, both as a Technology and as a way of creating Technology. Today's mainstream SW/IT industry uses a broad range of Open Source Tools, Technologies, Products and Solutions ; and these are as much for reasons of lower cost as for technological superiority. Operating Systems, Data Bases, Web Servers, Data Base Servers, Internet & Web Technologies, Programming Languages, Applications of all types -- Open Source has them all. Relevance and values of FOSS, especially to the Indian context, arise from the following:

- FOSS is low cost and affordable.
- FOSS makes design & code freely available.
- FOSS is easy to modify & customise.
- FOSS & Open Standards prevent vendor-lockin.
- FOSS helps eliminate use of un-licensed SW.

Despite these inherent benefits, FOSS still needs certain extent of support and patronage for it to fully realise its economic and social potential. It suffers from limited public awareness, lack of trained Human Resources, scarcity of proven business models, inadequate mainstream industry confidence etc. **The intention of organizing this workshop is to help overcome some of these drawbacks.**

Workshop Organisation

Patrons

Mr. Vijay Kumar, Chairman , LCET
Mr. Brij Pal Singh Sachdeva, MD, LCET

Organising Committee:

Dr. J.S.Sohal, Director, LCET -- *Chairman*
Dr. Pawan Kumar, Principal, LCET
Dr. C N Krishnan, NRCFOSS/AU- *Co-chairman*
Ms. P. Latha, Senior Scientist, NRCFOSS/AU
Dr. M.S.Rajput, LCET
Prof. R.K. Agarwal, LCET
Dr. Satinder Bir Kaur, LCET
Prof. Monika Gupta, LCET -- *Coordinator*
Prof. S.S. Grewal, LCET
Prof. Ajay Singh Rana, LCET
Prof. Rajkamal Grewal, LCET
Prof. Kuldeep Singh, LCET
Prof. V.K. Chadha, LCET
Prof Kishor Kumar Panthi, LCET

Registration Details:

1. **Eligibility:** Faculty Members of CSE/IT/MCA Departments.
2. **Registration fee:** Rs. 500/- per candidate (towards tea/snacks/lunch). Accommodation available on extra payment. All payments through cash or DD in favour of "Ludhiana College of Engg. & Tech." payable at Ludhiana.
3. Completed registration form along with payment to be sent to: Director/Principal **LCET, Ludhiana-Chandigarh Highway, Katani Kalan, Ludhiana-141113.**
4. Last date for receiving application: **15th June 2010.**
Confirmation of Registration: **17th June 2010.**

NRCFOSS:

The National Resource Centre for Free/Open Software (NRCFOSS- www.nrcfoss.org.in), funded by the Dept. of Inf. Tech., Ministry of Communication & Inf. Tech., Govt. of India, and coordinated by C-DAC Chennai, has been set up to contribute to the growth of FOSS in India through Human Resource Development (HRD), Research and Development (R&D), Deployment of FOSS Technologies, etc. The Anna University division of NRCFOSS (www.nrcfoss.au-kbc.org.in), being handled by the AU-KBC Research Centre, focuses on creation of FOSS HRD in both the formal and non-formal sectors. It helps universities and colleges to introduce FOSS into their formal curricula in different ways -- through elective courses, lab classes, student projects, replacing proprietary SW packages with their FOSS alternatives in different domains etc.

LCET- Katani Kalan, Ludhiana:

Ludhiana College of Engineering and Technology (LCET) has been established in 2002 with the objective of fostering a holistic approach towards development of technical education. Located on Ludhiana-Chandigarh national highway at Katani Kalan, Dist Ludhiana, LCET runs under graduate courses and post graduate courses in many branches of engineering, including Computer Science. More details about the college can be seen by browsing website www.lcetldh.com.

Contact the Coordinator:

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E-mail: nrcfoss.lcet@gmail.com

Website: www.lcetldh.com

Registration Form

**WORKSHOP ON “FREE/OPEN SOURCE SOFTWARE & LINUX”, 21st -25th JUNE 2010 .
LCET, KATANI KALAN, LUDHIANA.**

- 1. Prof/Dr./Mr./Ms.....
- 2. Designation/Dept.....
- 3. Institution:
-
- 4. Mailing Address:
-
-
- 5. Mobile No.:
- 6. E-Mail ID:
- 7. FAX:
- 8. Total Fee Paid:
- 9. DD No.:Bank:.....

Dated:

(Signature)

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Name, Signature & Seal of the Sponsoring Authority

About the Workshop

The present Workshop is aimed at introducing FOSS and Linux to teachers of Engineering/MCA Colleges, with a strong emphasis on hands-on training so that they can in turn train their students on this critical component of modern I.T. Infrastructure.

Course Objectives:

- To create awareness about the FOSS history, philosophy and methodology.
- To enable the participants to install and use a popular Linux distribution.
- To impart hands-on training in Linux usage, administration, GUI Programming and software development tools.

Course Contents:

- **Evolution of FOSS:** History of Free / Open Source Software. Discussion of important FOSS projects (Linux, mozilla). Foss Licenses (GPL, BSD, CC, SIL font license)
- **Linux Distributions:** Installation of GNU/Linux (Recommended Distribution: Debian). File System Hierarchy. Startup/ Shutdown - Boot loader, Run levels (GUI, text mode). Desktop Environments.
- **Linux Administration:** Shell - Introduction, basic commands, man/info pages. User management - types of users, groups. File management - Types, Permissions. Basic Networking - TCP/IP Configuration, file sharing.
- **Software development tools:** C, C++, GNU Debugger. Compiling/running java programs. Build tools - make, patch/diff, Version Control System. Integrated development environment.
- **GUI Programming:** GTK+ - Introduction, Glade (Interface Designer), Language bindings. Localization - Introduction, Unicode, gettext.

Resource Persons: Workshop Faculty would be drawn from NRCFOSS, Anna University Chennai and other institutions where FOSS expertise is available.

Workshop On

“Free/Open Source Software & Linux”

21st -25th June, 2010

At

**Ludhiana College of Engineering & Technology (LCET),
Katani Kalan, Ludhiana.**

Organized by

**National Resource Centre for FOSS
Anna University Chennai
(www.nrcfoss.au-kbc.org.in)**

&

**Computer Science & Engg. Dept
LCET, Katani Kalan, Ludhiana.
(www.lcetldh.com)**