

Faculty Development Program
on
Free and Open Source Software

Funded by

**The National Mission on Education
through ICT, MHRD**

Jointly organized by

FOSSEE Project, IIT-Bombay

and

Jaya Engineering College



Venue : **Jaya Engineering College**

Thiruninravur, Chennai – 602 024

23-27 November, 2009

Introduction

The Free Software movement came into being in 1983 when Richard Stallman set up the Free Software Foundation (FSF) to advocate the users' freedom to run the program for any purpose, study and modify the program, and to redistribute copies of original or modified programs. In late 1990s, the Open Software Initiative (OSI) focused on the technical values of making source code open to develop powerful and reliable software at a rapid rate.

Benefits of F/OSS (Free/Open Source Software) include security, reliability, stability, open standards and vendor independence, localization features and developing local software capacity; it obviates piracy and IPR problems, and provides cost effective and affordable solutions .

In August 1991, Linus Torvalds, a student at the University of Helsinki, created the first version of Linux kernel and released it under GNU General Public License (GPL) of FSF. Since then, F/OSS Movement has grown by leaps and bounds, with internet providing a powerful medium of collaboration for developers and users across the globe. There are hundreds of thousands of F/OSS products freely downloadable from the web such as Apache, MySQL, Postgres, Firefox etc.

What makes Linux so popular?

- It is a Free and Open Source OS
- It is modular and has choice of components
- It has full multitasking support
- It is portable and stable
- It is ported many architecture
- It has tremendous networking capabilities

The FDP

This 5 day FDP is aimed at enabling the faculties in handling the FOSS Elective I (CS1023/MC1634). 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.

Objective

- Cover the FOSS Elective I syllabus
- To impart a first hand knowledge on the FOSS philosophy and methodology
- To enable the participants to install and use GNU/Linux OS.
- To train the participants to use GNU/Linux OS as a platform to teach the CS Concepts
- To encourage them to apply FOSS philosophy and migrate to FOSS in their own domains

Contents

- Overview of FOSS
- GNU/Linux installation and configuration
- Understanding the OS boot up process and basic desktop usage
- Commonly used programs and packages
- File systems and basic shell commands
- Programming in GNU/Linux OS
- Collaborative development Tools (version control, wiki, mailing lists, bug tracking, community culture)

Faculty

Experienced Faculty, Professionals from IIT's, Indian Linux Users Group-Chennai and other Institutions.

Organisers

National Mission on Education through Information and Communication Technology (NME-ICT) has been envisaged as a centrally sponsored scheme by the Dept. of Higher Education, Ministry of Human Resource Development to leverage the potential of ICT. The mission has two major components; 1. content Generation and 2. Connectivity along with provision for access devices for institutions and learners.

FOSSEE Project - Free and Open source Software for Science and Engineering Education. This project is based at the Indian Institute of Technology Bombay (IITB). The goal of this project is to enable the students and faculty of Science and Engineering colleges/institutes/universities across India to use open source software tools for all their computational needs, thereby improving the quality of instruction and learning.

Jaya Engineering College is approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The college offers 9 UG and 5 PG programmes in Engineering, Technology and Management. The college is a forerunner in pioneering the cause of Free and Open Source Software and its benefits. The college has been involving actively in promotion and adoption of open source softwares since 2005 and has been constantly serving the student fraternity.

Intended Audience

College and University Teachers/ Professors/ Lecturers from any Engineering Stream. FDP will be completely hands-on. Lab sessions will be arranged to make participants familiar with course content.

How to Register?

Participants are requested to fill up the Registration form with signature and stamp from their college and send the same to the below address before 13.11.2009. There is no registration fee. Admission will be on first come first served basis. The number of seats is limited.

For outstation Participants

Travel support will also be provided for second class train fare/bus. Accommodation will be provided at the venue. All participants will be provided a DVD containing Course material and other Open Source software.

Details of the FDP will be updated in the website www.jayafossclub.org time to time.

Dates to be Remembered

Last Date for Registration : 13.11.2009
Intimation of selected list : 16.11.2009

Contact Details

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FDP on Free and Open Source Software

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Registration form

Name: _____

Designation : _____

Institute : _____

Postal address of College:

Postal Address of Participant:

Phone: (Office) _____

(Res) _____

(Mobile) _____

email-id: _____

Department: CSE / IT / MCA

Areas of interest: _____

Accommodation Required: Yes/ No

Age: _____ Gender: M/F

Signature of applicant:

Date:

Signature of the Principal:

Seal of the College :