

Short Course On

“Linux Installation and Programming”

24th -29th September, 2007

G.E.C. Chandkheda,
Gandhinagar, Gujarat

Organized By

**National Resource Centre for FOSS
(NRCFOSS)
Anna University, Chennai**

and

**Government Engineering College,
Chandkheda, Gandhinagar
Gujarat.**

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 & 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 & IPR problems, and provides cost effective and affordable solutions

Linus Torvalds, a student at the University of Helsinki, created the first version of “*Linux*” Operating System kernel in August 1991 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.– Apache, MySQL, Postgres, Firefox etc .The impact of Linux however has been such that a lay user often identifies FOSS with Linux OS.

What makes Linux so popular?

- It is free and Its open source
- It is modular and has choice of components
- It has full multitasking & 32 bit support
- It is portable and stable
- It has got tremendous networking capabilities

The Present Course

The present short course is aimed at introducing 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 impart a first hand knowledge on the FOSS philosophy and methodology
- * To enable the participants to install and use Linux distribution
- * To train the participants in Linux desktop usage and some commonly used programmes
- * To encourage them to apply OSS philosophy and migrate to FOSS in their own domains

Contents:

- Overview of FOSS -- definition, motivations, history and advantages
- GNU/LINUX operating system installation
- File systems and basic shell commands
- Configuring additional hardware Understanding the OS boot up process and basic desktop usage
- · X Window system configuration and utilities
- · Some commonly used programs and packages
- · Collaborative development in FOSS -- Overview of tools (version control, wiki, mailing lists, bug tracking, community culture)

Faculty:

Experienced faculty from NRCFOSS, Anna University, Chennai , and other institutions would deliver lectures and conduct lab classes on the above mentioned topics.

About NRCFOSS.

The **National Resource Centre for Free/Open Software (NRCFOSS)** aims to contribute to the growth of FOSS in India through Human Resource Development, Research and Development, and Deployment of FOSS alternatives to proprietary software in various application domains.

Funded by the Dept. of Information Technology, Ministry of Communication and Information Technology, Govt. of India, (www.mit.gov.in), NRCFOSS began its operations in April 2005. It is jointly managed by AU-KBC Research Centre, Anna University, Chennai (www.au-kbc.org) and the Chennai division of the Centre for Development of Advanced Computing (www.cdac.in)

Educational Initiatives from the Anna University division of NRCFOSS include introduction of FOSS electives, labs, student projects and migration to FOSS in various engineering branches. For more details, please visit: www.nrcfoss.org.in and <http://nrcfosshelpline.in/web/>

About GEC- Chandkheda, Gandhinagar.

The Government Engineering College, Chandkheda, Gandhinagar been established in 1994 by the Government Of Gujarat. with the objective of fostering a holistic approach towards development of technical education. Six undergraduate programs (Computer Engineering , Information Technology, Electrical ,Electronics and Communication, Chemical Engineering and Instrumentation and Control) are running in the institute out of which Chemical Engineering and Instrumentation and Control are accredited by NBA. GECG is also participating in World Bank sponsored TEQUIP program..

Registration details:

Eligibility : Faculties from CE/IT/EC/IC/MCA Department are eligible.

For TEQIP/GOVT institute Candidates-
Registration fee per delegate Rs. 300/-

For Non-TEQIP institutes Candidates-
Registration fee per delegate Rs. 800/-
(Registration fee includes Tea and Working Lunch.
Accommodation available on extra payment)

All payments through DD in favor of :
“Principal, Govt. Engg. College, Gandhinagar”

Completed Registration form must reach the
Coordinator along with the DD by **15th Sept’ 2007-**

**Government Engineering College, Chandkheda,
Nr. Visat Cross Road,
Opp.SangathMall, Chandkheda,Gandhinagar -
382424**

Confirmation of Registration will be intimated
by **18th Sept., 2007.**

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Registration Form

Short Course On “**Linux Programming & Installation**” 24th -29th September,2007
GEC, Chandkheda, Gandhinagar

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