

# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

## DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

### 5 days Certification Course on “Hands on Unix commands and Shell Scripting” Report

Department of ISE conducted 5 days Certification Course and the details of the course are as follows :

- **Course Title :** Hands on Unix commands and Shell Scripting
- **Resource Personnel :** Prof. Asha P N, Assistant Professor, Shri Pillappa College of Engineering, Bengaluru
- **Course Duration & Date:** 5 Days from 21-Jul-2014 to 25-Jul-2014

**Objective of the Course:** UNIX is an operating system which was first developed in the 1960s, and has been under constant development ever since. By operating system, we mean the suite of programs which make the computer work. It is a stable, multi-user, multi-tasking system for servers, desktops and laptops.

UNIX systems also have a graphical user interface (GUI) similar to Microsoft Windows which provides an easy to use environment. However, knowledge of UNIX is required for operations which aren't covered by a graphical program, or for when there is no windows interface available, for example, in a telnet session.

- The five day course made the students to be familiar with the major concepts in unix operating system which is a main platform for their career .Certificate Course became the vital step to improve the knowledge of students.
- **Participants:** ISE Students

Certificate course made them comfortable with the unix OS and commands required to work with the operating system. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Speaker took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side.



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It is a practice of the department to take care any issues pertaining to the academics in this connection department of ISE has convey meeting with Academic committee members and to discuss about any lapses with academic activities and felt that to conduct Certification Course. Test was conducted for the participants and participants' feedback was collected about the Certification Course. Certificates were distributed to the participants.

### • Course Content :

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No of Hours
21-7-2014 Monday	Introduction to Unix files, Naming files, basic file types/categories. Organization of files. Hidden files, Standard directories. Parent child relationship. The home directory and the HOME variable, the PATH variable, manipulating the PATH, Relative and absolute pathnames.	Directory commands – pwd, cd, mkdir, rmdir commands. The dot(.) and double dots (..) notations to represent present and parent directories and their usage in relative path names.	Executing commands and to view the output	6
22-7-2014 Tuesday	File related commands – cat, mv, rm, cp, wc and od commands. File attributes and permissions and knowing them.	The ls command with options. Changing file permissions: the relative and absolute permissions changing methods. Recursively changing file permissions. Directory permissions.	Executing commands and to view the output	6

  
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23-7-2014 Wednesday	The vi editor. Basics. The .exrc file. Different ways of invoking and quitting vi. Different modes of vi.	Input mode commands. Command mode commands. The ex mode commands. Illustrative examples Navigation commands. Repeat command. Pattern searching.	Explore vi editor with vim tutor. Perform the following operations using vi editor, but not limited to:  1. Insert character, delete character, replace character  2. Save the file and continue working  3. Save the file and exit the editor  4. Quit the editor  5. Quit without saving the file  6. Rename a file  7. Insert lines, delete lines,  8. Set line numbers  9. Search for a pattern  10. Move forward and backward	6
24-7-2014 Thursday	Command line arguments. exit and exit status of a command. Logical operators for conditional execution. The test command and its shortcut.	The if, while, for and case control statements. The set and shift commands and handling positional parameters. The here ( << ) command and trap command. Simple shell program examples.	Executed shell scripts	6

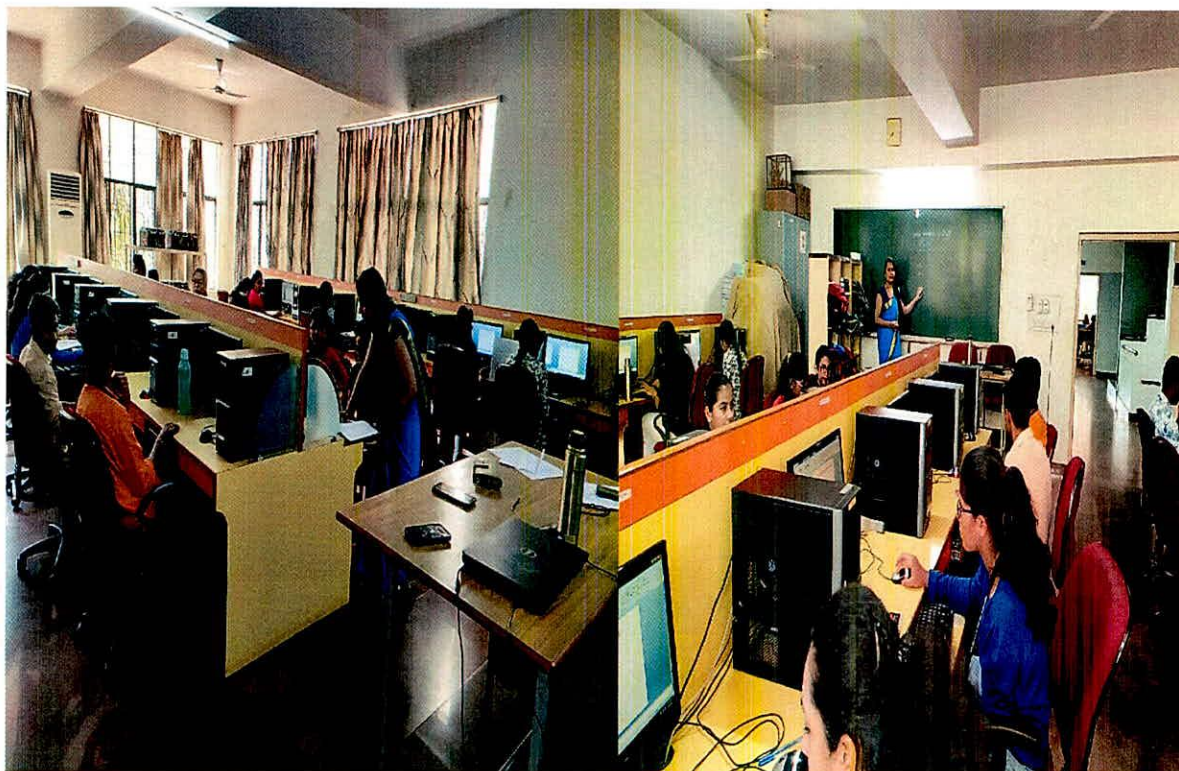
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25-7-2014 Friday	File inodes and the inode structure. File links – hard and soft links. Filters. Head and tail commands. Cut and paste commands.	The sort command and its usage with different options. The umask and default file permissions. Two special files /dev/null and /dev/tty.	Executing sample programs using the commands discussed in session Test conduction	6
Total				30



5 days Certification Course “Hands on Unix commands and Shell Scripting” by Prof. Asha P N,  
Assistant Professor, Shri Pillappa College of Engineering, Bengaluru from 21-Jul-2014 to 25-Jul-2014

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HOD

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