Session 1 – Introduction

Session 2
Login Session
Terminals/Consoles (GUI/CUI)
Commands

Notes
GUI
Terminal – CTRL + ALT + T
Tab from Terminal – CTRL + SHIFT + T
Switch between different terminals – ALT + TAB
Switch between different tabs in the same terminal – ALT + 1, ALT + 2, ALT + 3

CUI
CTRL + ALT + F1 to CTRL + ALT + F6 from GUI to CUI
CTRL + ALT + F7 from CUI to GUI

1. Command
2. Command + option/s
3. Command + option/s + Argument/s
4. Command + option with value
5. Command + option with value + Argument/s

pwd, ls, date, cal, mkdir, cd
touch

Option – or --
- short
-- long

IST --> UTC or GMT + 5:30Hrs
UK --> UTC + 1 Hrs

Session 3
Sample Command Application

$ cp/mv source destination
source – one or more files
destination – file – source file is copied to destination file
destination – directory – source file/s are copied to destination directory
if there are multiple source files – last one should represent directory

. -> Current Directory
.. -> Parent Directory

Session 4
Important Directories,
Wild cards or meta-characters

Binaries
/usr/bin
/usr/sbin
/bin
/sbin

Libraries
/usr/lib
/lib

/boot
/proc
/tmp
/dev
/etc/
/var

PTS – Pseudo Terminal System
/dev/tty1
/dev/tty2

Home Directory
cd
cd ~
cd ~uplatz

Metacharacters
* (0 or more),
? (1)

f1.txt
f2.txt
f3.txt
f12.txt
f23.txt
f31.txt
f123.txt
f321.txt

which
whereis
whatis

Session 5
Editors
GUI Editor (gedit, emacs)
Text Editors (vi, vim)

vi – Visual Editor
vim – Vi Improved

3 Modes

1. Edit Mode or Insert Mode or Append Mode or Open Mode or Text Mode

2. Command Mode (Default) or Esc-Mode

3. Ex-Mode

Command Mode --> Edit Mode (i, I, a, A, o, O)
Edit Mode to Command Mode --> Esc

Navigation

Command Mode
Copy a line – nyy
Paste the line – np
Delete Line - ndd
Replace a character – r
Replace multiple characters until Esc is pressed - R
Last Line – G
Change Word - ncw
Repeat - .
Delete Word – ndw
Undo – u
Line Information – Ctrl + G
Change Case - ~
Delete Character – nx
First column of the line – 0
Last Column of the line - $

yy and 10p -> Copy single line and paste 10 times
3yy and 2p -> Copy 3 lines and paster 2 times

iXXX -> Current cursor location
IXXX -> Beginning of the line
aXXX -> Append from the current cursor location
AXXX -> Append after the end of line
o -> Opens or creates line next to the current line
O -> Opens before current line

HJKL

Page (Next Page or Previous Page)

Find and Replace

Ex-Mode
:10 (Goto specified line)
:w (Save the file)
:q (Quit the file)
:wq (Save and Quit)
:q! (Quit without Saving)

:e! (Reload the file)
/is
n -> Next, N -> Previous
?ls

/ -> Forward Search
? -> Backward Search

:1, $ s/line/my line/
:1, $ s/line/my line/g

:set nu
:set nonu

6 + 6 + 9 + 2 New Lines + EOF (1 character)

Session 6
Command Help

man – Manual Pages
info

man ls
man pwd
man man

Manual Sections
1 – Commands
2 – System Calls
3 – Library Calls or API
5 – Configuration Files

/usr/share/man/man1
/usr/share/man/man2
/usr/share/man/man3