Module-I


Module-II

INTRODUCTION TO INTERNET: Introduction – Evolution of Internet – How Big is Internet – Transmission Protocol Used Over Internet – Definition of Internet – Connecting to Internet – How to Get An Internet Account.


Text Books:

1. Title: Fundamentals of Computers , V.Rajaraman, Prentice-Hall of India Limited, New Delhi
2. Title: Let’s Learn Internet, M.K.Goel, Sterling Publishers Limited, New Delhi
Task 1
Assembling & De-assembling a Personal Computer

Detailed demonstration of disassembling and assembling of a PC should be given by the instructor. Lab instructors should verify the work and follow it up with a viva. Also students need to go through the video which shows the process of assembling a PC. A video would be given as part of the course content. Every student should disassemble and assemble the PC back to working condition.

Task 2
Windows XP Installation
Detailed demonstration of Windows XP Installation should be given by the instructor. Every student should individually install MS windows on the PC. Lab instructor should verify the installation and follow it up with a viva.

Task 3
Linux Installation
Detailed demonstration of Linux Installation should be given by the instructor. Ultimately the system should be dual boot with Windows XP and Linux. Every student should install Linux on the PC. This computer should have windows installed. This computer should have windows installed. The system should be configured as dual boot with Windows XP and Linux. Lab instructor should verify the installation and follow it up with a viva.

Task 4
Basic commands in Linux
Basic system administration in Linux which includes:
- Basic Linux commands in bash
- Linux commands like cd, clear, date, df, finger, logout, ls, man, nano, password, pwd
- Create hard and symbolic links
- Text processing
- Using wildcards

Books:
1. Comdex Information Technology course tool kit Vikas Gupta, WILEY Dreamtech
3. Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.
Task 1  
**Hardware Troubleshooting:**  
This task includes:  
Common problems in computer hardware  
Understanding the system beeps when a computer boots.  
Check list to identify the defect in computer and troubleshooting techniques.  
Students should be given a PC which does not boot due to improper assembly or defective peripherals.  
They should identify the problem and fix it to get the computer back to working condition. The work done should be verified by the instructor and followed up with a viva.

Task 2  
**Software Troubleshooting**  
This task includes:  
Common problems in OS booting and OS settings  
Understanding the system booting, restoring a system when it’s struck and installing/removing device drives and programs  
Students have to be given a malfunctioning CPU due to system software problems. They should identify the problem and fix it to get the computer back to working condition. Internet and World Wide Web.

Task 3  
**Orientation & Connectivity Boot Camp**  
Orientation should be given by the instructor which includes the following topics:  
1. What is Internet and WWW?  
2. How does internet and WWW work?  
3. Different ways to hooking on to the internet from home and workplace.  
4. Students should get connected to their Local Area Network and access the internet. In the process they configure the TCP/IP setting. Finally students should demonstrate, to the instructor, how to access the websites and email. If there is no internet connectivity preparations need to be made by the instructors to simulate the WWW on the LAN.

Task 4  
**Customization of the web browser**  
Students should customize their web browsers with the LAN proxy settings, bookmarks, search toolbars and pop up blockers. Also, plug-ins like Macromedia Flash and JRE for applets should be configured.
Students should know what search engines are and how to use the search engines. A few topics would be given to the students for which they need to search on Google. If there is no internet connectivity then a few websites should be cached in the local web servers and simulated.

**Task 5**

**Anti Virus Setup**

Students would be exposed to the various threats on the internet and would be asked to configure their computer to be safe on the internet. They need to first install antivirus software, configure their personal firewall and windows update and computer. Then they need to customize their browsers to block pop ups, block active X downloads to avoid viruses and/or worms.

Students should configure their antivirus software to scan all the emails that come into and go out of their system. Also they should be demonstrated how to protect themselves from spam.

**Books:**

4. Comdex Information Technology course tool kit Vikas Gupta ,WILEY Dreamtech
6. Introduction to Information Technology, ITL Education Solutions limited, Pearson Education.