

BRIDGE COURSE SYLLABUS-2018

Objective:-

The Bridge Course aims at acting as a buffer for the new entrants. Its chief objective is to provide adequate time for the transition to enter into the new world of information technology. Students will gain necessary background information and they will be confident enough to delve deep into deeper areas of computing. This course spanning two weeks, gives students the opportunity for interaction with the faculty and with the classmates

1. Different parts of a desktop computer:

- System
 - Mother board
 - Ports
 - Bios
 - Processor
 - Ram
 - Hard disk
 - DVD drive
 - SMPS
- Keyboard
- Mouse
- Monitor
- Specter
- Printer
- Scanner

Explain the above components with the help of demo.

2. Introduction to OS

- What is an operating system
- Windows
 - Basics of Windows
 - About windows
 - Microsoft windows versions
 - The User Interface
 - Using Mouse and Moving Icons on the screen
 - The My Computer Icon
 - The Recycle Bin
 - Status Bar, Start and Menu & Menu selection
 - Running an Application
 - Windows Explorer Viewing of File, Folders and Directories
 - Creating and Renaming of files and folders
 - Opening and closing of different Windows
 - Windows Setting
 - Control Panels

- Wall paper and Screen Savers
 - Setting the date and Sound
 - Advanced Windows
 - Using right Button of the Mouse
 - Creating Short cuts
 - Notepad
 - Window Accessories
- Dos
 - Comparison of DOS and Windows
 - Switching Between DOS and Windows
 - Basic DOS Commands
 - File/Directory Manipulations
 - Copying of files and Disks
 - Delete/Undelete
- UNIX
- Linux
 - Linux versions
 - Ubuntu
 - Fedora
 - Debian linux
 - Mandriva linux
 - Red Hat enterprise Linux

3. Internet

- WWW and Web Browsers
 - Web Browsing software
 - Surfing the Internet
 - Giving the URL address
 - Search
 - Moving Around in a web-site
 - Printing or saving portion of web pages
 - Down loading
 - Chatting on Internet
- Email
 - Basic of electronic mail
 - What is an Electronic mail
 - Email addressing
 - Mailbox: Inbox and outbox
 - Using Emails
 - Viewing an email
 - Sending an Email
 - Saving mails

- Sending same mail to various users
- Document handling
 - Sending soft copy as attachment
 - Enclosures to email
 - Sending a Portion of document as email

4. Cyber law

- Cyber Crimes
 - Computer Crime
 - Nature of Crimes
 - Penalty for damage to Computer
 - Tampering with Computer Source Documents
 - Hacking
- Computer Related Offences
- The Language of Cyberspace.

5. Opportunities in IT

6. <https://www.computerscienceonline.org/information-technology/>

- Data
- Problem solving using computers
- Algorithms and flowcharts (problems involving decision making and looping)