

17BCACPRP17: Programming Lab- Basic Computer Lab.

Practical Hours: 4 Hrs/week

Marks: Main exam: 80

IA: 20

Part-I

Students shall practice working in Linux Environment-Open Source OS. Student shall understand basic shell environment.

Following shall be practiced

- OS boot process.
- Familiarity with bash/similar shell for executing basic shell commands such as ls, cd, mv, man, mkdir, rm, locate, touch, cat, chmod, who, tty, shutdown, pipe, etc.
- Creating files and directives, changing file permissions, path names
- Using vi editor
- GUI commands
- Basic commands through shell script
 - Echo command
 - Creating new variables and echoing
 - Using if statement scripts runs a command to count the number of lines in the filename provided
 - Handling shell variables

Part-II

Students shall gain familiarity of Windows 10/Windows 8 OS- Basics of Windows, basic components of windows, icons, taskbar, activating windows, using desktop, title bar, running applications, exploring computer, managing files and folders, copying and moving files and folders. Control panel features, adding and removing software and hardware.

Part-III

Students shall know about the various hardware components of a typical desktop computer/laptop. Identify motherboard, processor, network card, data bus, i/o devices, hard drive, hard disk, flash drive, various ports and other parts of computer.

Part-IV

Students shall gain familiarity with word processing software such as MS Word/Open Office. Understand various editing and formatting features, mail-merge option, encrypting the document, and inserting clipart/shapes./hyperlink/word art.

Lab Record

Students shall write

1. Features of Linux OS, description of the basic shell commands
2. Features of Windows OS
3. Description about typical hardware component of computer system