**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class: BA/BSc IT 6th Sem**   **Name of the Teacher: Sonika**

**Subject: Linux programming Period:**

**Paper: Room No:**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | Introduction to Operating Systems, its need and services, Batch Systems, Time sharing systems, parallel systems, |
| Week 2 | 13-01-2020 to 18-01-2020 | Distributed systems and real time systems. What is Linux ,Linux ’history, Minimum System Requirements; |
| Week 3 | 20-01-2020 to 25-01-2020 | Working with Linux ,Floppy-less installation ,Boot and Root Disks, Choosing Text or Graphics installation. |
| Week 4 | 27-01-2020 to 01-02-2020 | Setting up your Hard Drive, Formatting the Partitions ,Setting up the Ethernet, Configuration X, Selecting packages to install. |
| Week 5 | 03-02-2020 to 08-02-2020 | Using LILO :Partitioning the Hard Disks Linux Swap Space partitions ,Linux’ fdisk |
| Week 6 | 10-02-2020 to 15-02-2020 | Enabling the Swap Space for Installation, Creating the Linux file System partition Using LILO. |
| Week 7 | 17-02-2020 to 22-02-2020 | Using Linux: starting and stopping your Linux, Linux shutdown commands, creating a new login, logout. |
| Week 8 | 24-02-2020 to 29-02-2020 | Basic Linux commands, input and outputRedirection,The Linux man commands, Process termination commands |
| Week 9 | 02-03-2020 to 05-03-2020 | Kill command, su command, the grep command. Using the file system: common types of files, parent directory and sub directory, the root directory , How directories are named, Navigating the Linux file system. |
| **Mid Semester Exams (06-03-2020 to 13-03-2020)** | | |  | Basic Linux commands, input and outputRedirection,The Linux man commands, Process termination commands |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | Kill command, su command, the grep command. Using the file system: common types of files, parent directory and sub directory, the root directory ,How directories are named, Navigating the Linux file system. |
| Week 12 | 24-03-2020 to 28-03-2020 | Linux file system:/, home,/bin,/usr/bin/usr/spool, /dev, /usr/bin,/sbin,etc. Linux for System Administrators: The root Account, Starting and Stopping the System, Mounting File Systems: Compressing files with gzip ,using tar and Backup, Setting up your system :Setting the system name, Setting the login Message. |
| Week 13 | 30-03-2020 to 04-04-2020 | File and directory permissions: file and directory ownership, umask setting, changing directory permissions, What is shell, Pipeline, job control, customizing bash, bash commands, bash variables. |
| Week 14 | 07-04-2020 to 11-04-2020 | Linux –tcsh introductions to tcsh,command completion, login ,logout,rederecting,piping,job control,tcsh variables, command summary |
| Week 15 | 15-04-2020 to 18-04-2020 | Shell Programming: creating and running shell programs, using variables and Assigning a value to a variable. |
| Week 16 | 20-04-2020 to 24-04-2020 | The tcsh Equivalent test command until statement, select command, repeat statement. |
| Week 17 | 27-04-2020 to 02-05-2020 | Editing and Typesetting :text editors vi,starting vi ,vi modes, deleting text, copying and moving text, searching and replacing text, Setting preferences |
| Week 18 | 04-05-2020 | Networking &Network Services: TCP/IP? Setting up Dummy interface, Testing and Troubleshooting, The netstat command, ping command, Mail, News, NFS ,NIS,WWW,FTP DNS. |