**Post Graduate Government College for Girls, Sector-42, Chandigarh**

**Teaching Plan for Bachelors (FIRST SEMESTER)**

**Session (2020-2021)**

**Class: BSc CS 1st SEM**   **Name of the Teacher: Sonika**

**Subject: CS(E) Paper: Computer Fundamentals**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 01/09/2020 – 05/09/2020 | **Computer Appreciation:** Introduction to computers, characteristics of computer; History of computers; Classification of computers on size: (Micro, Mini, Mainframe and super computers), Working Principles, Generations; Applications of computers; commonly used terms–Hardware, Software, Firmware. |
| Week 2 | 07/09/2020 – 12/09/2020 | Basic Computer Organization: Block diagram of computer system, Input unit, Processing Unit and Output Unit |
| Week 3 | 14/09/2020 – 19/09/2020 | Description of Computer input devices: Keyboard, Mouse |
| Week 4 | 21/09/2020 – 26/09/2020 | Trackball, Pen, Touch screens |
| Week 5 | 28/09/2020- 03/10/2020 | Scanner, Digital Camera; Output devices: Monitors |
| Week 6 | 05/10/2020- 10/10/2020 | Printers, Plotters. |
| Week 7 | 12/10/2020- 16/10/2020 | Representation of information: BIT, BYTE, Memory, Memory size |
| Week 8 | 19/10/2020- 24/10/2020 | Units of measurement of storage; Main memory: main memory organization, RAM, ROM, PROM, EPROM |
| Week 9 | 27/10/2020- 30/10/2020 | Secondary storage devices: Sequential Access Memory, Direct Access Memory |
| Week 10 | 03/11/2020- 07/11/2020 | Magnetic Tapes, Magnetic disks, Optical disks: CD, DVD |
| Week 11 | 09/11/2020- 12/11/2020 | Memory storage devices: Flash Drive, Memory card |
| Week 12 | 16/11/2020- 21/11/2020 | System and Application software; **Programming Languages**: Generation of Languages; Translators - Interpreters, Compilers |
| Week 13 | 23/11/2020- 28/11/2020 | Assemblers and their comparison. |
| Week 14 | 01/12/2020- 05/12/2020 | **Range of Applications**: Scientific, Word Processing, Spread Sheets, E-commerce, Business, Educational, Industrial, National level weather forecasting, Remote Sensing, Planning Multilingual Applications. |
| Week 15 | 07/12/2020- 12/12/2020 | Types of Operating System; Linux/Dos/Windows. |
| Week 16 | 14/12/2020- 18/12/2020 | **Operating Systems** : Components of Operating System,Functions of Operating System |
| Week 17 | 21/12/2020- 26/12/2020 | **Computers and Communication**: Single user, multi-user, workstation, and client server systems. Computer networks, Network protocols. LAN, WAN, Services offered by Internet. |