**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: BCA 4th sem. Name of the Teacher: Sheenam & Sarbjit Kaur**

**Subject: Computer Graphics and Period : 2nd (1-4)**

**Multimedia Applications**

**Paper : BCA-16-603 Room No : 201**

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| **S. No** | **Dates** | **Topics to be covered** |
| **Week 1** | **14 /01/2019 – 19/01/2019** | **A Survey of Computer Graphics : Computer Aided Design,**  **Presentation Graphics, Computer art, Entertainment, Education and Training, Visualization,** |
| **Week 2** | **21/01/2019 –**  **25/01/2019** | **Image Pressing, Graphical User Interfaces.**  **Overview of Graphics Systems: Video Display Devices, Cathode Ray Tube, CRT monitors,** |
| **Week 3** | **28/01/2019 –**  **2/02/2019** | **Flat panel displays: Plasma Panel display, Thin-film electroluminescent displays, LED,**  **Liquid Crystal Displays (LCD), Raster Scan Systems, Random Scan Systems. Graphics** |
| **Week 4** | **4/02/2019 –**  **9/02/2019** | **Monitors and Workstations, Input Devices, Hard-copy devices, Graphics Software** |
| **Week 5** | **11/02/2019 –**  **16/02/2019** | **Developing Computer Graphics Using ‘C’: Input-output primitives, setting character and text**  **attributes, changing line styles** |
| **Week 6** | **18/02/2019 –**  **23/02/2019** | **Using fill styles to fill images. Use these primitives to**  **develop programs like drawing concentric circles, Ellipses, Sine curves, Histograms, Pie charts and human face.** |
| **Week 7** | **25/02/2019 –**  **02/03/2019** | **What is multimedia, Components of Multimedia, Need of**  **Multimedia, Features of a Multimedia System, Benefits and problems of using Multimedia?** |
| **Mid Semester Exam** | | |
| **Week 8** | **11/03/2019 –**  **16/03/2019** | **System Components: Multimedia system and a conventional system, Basic System components** |
| **Week 9** | **18 /03/2019 –**  **22/03/2019** | **Subsystems and functions of a Multimedia computer, Multimedia Add-on Cards. Applications: Multimedia in the Real World, Training and Education, Image Processing, Multimedia in home and office Multimedia Platforms: Personal computer as a Multimedia System, Limitations of the early** |
| **Week 10** | **25/03/2019 –**  **30/03/2019** | **Personal Computer as a Multimedia System, The evolution of MPC, Hardware Platforms,Software Platforms.**  **Development Tools: Types of development tools, Commercial tools, Stages of Multimedia**  **Application Development.** |
| **Week 11** | **1/04/2019 –**  **6/04/2019** | **Image: Sources of image, Types of images, Basic editing operations, Introduction to Image**  **Compression: Lossy and Lossless compression, Image file formats.**  **Audio: Hardware for Audio, Digital Audio, Audio editing operations, MIDI, Audio file**  **formats**  **Video: Hardware Components of a Video System, introduction to Video compression,**  **MPEG, Video file formats.** |
| **Week 12** | **8/04/2019 –**  **12/04/2019** | **Studying the Features and Developing Computer Graphics Using Standard Graphics package** |
| **Week 13** | **15/04/2019 –**  **20/04/2019** | **Auto CAD: Features and applications of AutoCAD, Interface, System Requirements, The X,Y coordinate system** |
| **Week 14** | **22/04/2019 –**  **27/04/2019** | **Dimensioning, Drawing commands, Cleaning Up the drawing,**  **Positioning Commands, Editing Commands, Construction Commands, Display Commands** |
| **Week 15** | **29 /04/2019 –**  **3/05/2019** | **Storage for multimedia: magnetic media, Optical media, Compact disk specifications.**  **Studying features and use of Multimedia authoring tools like Photoshop and Macromedia**  **Director.**  **Photoshop- Features, Interface, Toolbox, Color models, Layers, Filters**  **Macromedia Director- Features, Stage, Cast, Score, Control Panel, Sprite, Channels, Text**  **Inspector, Tools for creating cast members** |