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

**Teaching Plan Even Semester**

**Session (2018-19)**

**Class: BCA (6TH SEM) Name of the Teacher: Sonika**

**Subject: CG and Multimedia Applications Period :**

**Paper : Room No :**

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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, |
| Week 2 | 21/01/2019 –  25/01/2019 | Entertainment, Education and Training, Visualization, Image Pressing, Graphical User Interfaces. |
| Week 3 | 28/01/2019 –  2/02/2019 | Video Display Devices, Raster Scan Systems, Random Scan Systems. Input devices and hard copy devices. |
| Week 4 | 4/02/2019 –  9/02/2019 | Studying the Features and Developing Computer Graphics Using Standard Graphics package Auto CAD: Features and applications of AutoCAD, Interface, System Requirements, The X, Y coordinate system, Dimensioning, Drawing commands, |
| Week 5 | 11/02/2019 –  16/02/2019 | Cleaning Up the drawing, Positioning Commands, Editing Commands, Construction Commands, Display Commands. Developing Computer Graphics Using ‘C’: Input-output primitives, setting character and text attributes, changing line styles, Using fill styles to fill images. |
| Week 6 | 18/02/2019 –  23/02/2019 | 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 | Multimedia Applications: What is multimedia, Components of Multimedia, Need of Multimedia, Features of a Multimedia System, Benefits and problems of using Multimedia? System Components: Multimedia system and a conventional system, |
|  | | |  | AutoCAD: Features, Workspace, Commands to draw linePolyline, rectangle, polygon, circle, spline, hatch; Modification Commands: Erasecopy, move, mirror, scale, Pan, Zoom esc, cl, trim; Layer, Dimension, image rotation, area calculation. |
| Week 8 | 11/03/2019 –  16/03/2019 | **2nd week March (Mid Semester Exam)** |
| Week 9 | 18 /03/2019 –  22/03/2019 | Basic System components, 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 |
| Week 10 | 25/03/2019 –  30/03/2019 | Multimedia Platforms: Personal computer as a Multimedia System, Limitations of the early Personal Computer as a Multimedia System, The evolution of MPC, Hardware Platforms, Software Platforms. |
| Week 11 | 1/04/2019 –  6/04/2019 | Development Tools: Types of development tools, Commercial tools, Stages of Multimedia Application Development. |
| Week 12 | 8/04/2019 –  12/04/2019 | 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 |
| Week 13 | 15/04/2019 –  20/04/2019 | Video: Hardware Components of a Video System, introduction to Video compression, MPEG, Video file formats. Storage for multimedia: magnetic media, Optical media, Compact disk specifications. Studying features and use of Multimedia authoring tools like Photoshop and Macromedia. |
| Week 14 | 22/04/2019 –  27/04/2019 | Photoshop- Features, Interface, Toolbox, Color models, Layers, Filters |
| Week 15 | 29 /04/2019 –  3/05/2019 | Macromedia Director- Features, Stage, Cast, Score, Control Panel, Sprite, Channels, Text Inspector, Tools for creating cast members |
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