

CLUSTER UNIVERSITY SRINAGAR (SYLLABUS)

Course Code	BCA-SEC3104
Course Title	Multimedia Computing
Semester	BCA 3 rd Semester
Course Type & Credits	Skill Enhancement Course 02 Credits (L) + 02 Credits (P) = 04 Credits

UNIT I (MULTIMEDIA INTRODUCTION)

Multimedia Elements, Multimedia Applications, Hypertext, Hypermedia (HTML, Dexter Model), Networked Multimedia, Distributed Multimedia (Virtual Communities, MM Conferencing), Media Technologies (Text, Graphics, Images, Animation, Video, Audio), Interaction Style (Sight, Sound, Touch), Multimodal Transput (I/O) Technologies.

UNIT II (COMPRESSION & STORAGE)

Binary Image Compression, Color, Grey Scale, Video Image Compression, , MPEG Coding Methodology, Audio Compression, , Data & File Format Standards (RTF, TIF, MIDI, JPEG, AVI), TWAIN Architecture

UNIT III (COREL DRAW)

Introduction to Corel Draw, Tool Box, Common Tasks, Selecting Objects, Creating Basic Shapes, Reshaping Objects, Color Fills and Outlines, Text Tool, Formatting Text, Embedding Objects, Blends, Distortion, Contour Effects, Bitmaps and Editing Bitmaps.

UNIT IV (ADOBE PHOTOSHOP)

Introduction, Working with Images (Zooming & Panning, Adjusting Colors, 3D Commands, working with multiple images, Resizing & Cropping Images), Working with Basic Selections (Elliptical Tool, Magic Wand, Magnetic Lasso Tool, Combining Selections, Regular & Polygonal Lasso Tool), Layers (Creating, Selecting, Linking, Locking, Merging, Filling, Grouping & Deleting Layers), Painting (Brush Tool, Colors & Swatches, Using Gradients), Photo Retouching, Auto Commands, Smart Filters, Text Effects, Adjust Curves, Adjustment Layers.

Recommended Readings:

1. Multimedia Systems, Klara Nahrstedt, Ralf Steinmetz
2. Multimedia Making it work: Tay Vau Ghan
3. Multimedia Learning, Richard E. Mayer
4. Introduction to Data Compression, Khalid Sayood.

Handwritten signatures and notes:
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