ırse Obje	ctive: To study the c	oncepts of m	ultimedia data, a	lgorithms and	compression.	
S. NO	Course Outcomes (CO)					
CO1	To describe Multimedia Information, Multimedia Objects and Multimedia in business and work.					
CO2	To analyze Multimedia Building Blocks like Text, Sound MIDI, Digital Audio, audio file formats.					
CO3	To apply Data Compression: Huffman Coding, Shannon Fano Algorithm.					
CO4	To explain Speech Compression & Synthesis, Digital Audio concepts					
CO5	To analyze Multiple monitors, bitmaps, Vector drawing.					
S. NO			Contents		Contac Hours	

	TOTAL	42
UNIT6	MultimediaDatabase. Content based retrieval for text and images, Video: Video representation, Colors, Video Compression, MPEG standards, MHEG Standard Video Streaming on net, VideoConferencing, Multimedia Broadcast Services, Indexing and retrieval of Video Database, recent developments in Multimedia.	6
UNIT 5	Images: Multiple monitors, bitmaps, Vector drawing, lossy graphic compression, image fileformats, animations, Images standards, JPEG Compression, Zigzag Coding	8
UNIT 4	Speech Compression & Synthesis : Digital Audio concepts, Sampling Variables, Loss less compression of sound, lossy compression & silence compression.	8
UNIT 3	Data Compression: Huffman Coding, Shannon Fano Algorithm, Huffman Algorithms, Adaptive Coding, Arithmetic Coding Higher Order Modeling. Finite Context Modeling, Dictionary basedCompression, Sliding Window Compression, LZ77, LZW compression, Compression, Compression ratio loss less & lossy compression.	6
UNIT 2	Multimedia Building Blocks: Text, Sound MIDI, Digital Audio, audio file formats, MIDI under windows environment, Audio & Video Capture.	6
UNIT 1	Introduction to Multimedia, Multimedia Information, Multimedia Objects, Multimedia inbusiness and work. Convergence of Computer, Communication and EntertainmentProducts, Stages of Multimedia Projects: Multimedia hardware, Memory & storage devices, Communication devices, Multimedia softwares, presentation tools, tools for object generations, video, sound, image capturing, authoring tools, card and page based authoring tools.	8