

M.Tech(IT) : Group D
Paper Code : MT23D
Paper Title: Multimedia System

SYLLABUS

1. Multimedia System Design

Multimedia Elements, Multimedia Applications, Multimedia System Architecture, Defining Objects for Multimedia Systems, Multimedia Data Interface Standards, Multimedia Databases.

2. Compression and Decompression

Types of Compression, Binary Image Compression Schemes, Color, Gray Scale and Still-Video Image Compression, Video Image Compression, Audio Compression.

3. Data and file Format Standards

Rich-Text Format, Resource Interchange File Format, MIDI Files Format, JPEG DIB File Format and Motion Image, MPEG Standards.

4. Multimedia Application Design

Multimedia Application Classes, Types Of Multimedia Systems, Virtual Reality Design, Components Of Multimedia System, Organizing Multimedia Databases, Application Workflow Design Issues, Distributed Application Design Issues.

5. Distributed Multimedia Systems

Components Of A Distributed Multimedia System, Distributed Client-Server Operation, Multimedia Object Server, Multiserver Network Topologies, Distributed Multimedia Databases, Managing Distributed Objects.

6. Storage and Retrieval Technologies

Magnetic Media Technology, Optical Media, Hierarchical Storage Management, Cache Management for Storage Systems

7. Multimedia Input/Output Technologies

Multimedia Input and Output Devices, Pen Input, Video and Image Display Systems, Print Output Technologies, Image Scanners, Digital Voice and Video, Video Images and Animation, Full-Motion Video.

References: -

1. "Multimedia System Design", Prabhat K. Andleigh, Kiran Thakur, PHI.