	Part A: Introduct	ion			
Program : Certificate	Class: B.ScIT IV Semester	Year 2024	Session: 2024-25		
. Course Code	ITSE-2				
. Course Title	Multimedia Technology	Multimedia Technology			
. Course type	Discipline Specific Elective (DS	E)			
Pre-requisite i	any As per Govt. Norms / Institutional	Scheme	The Bearing Contract		
Course Learni	0.11 1.41 1.41 1.41	After successfully completing this course, the students will be able to:			
Outcomes (CI	Learning : Multimedia, m	Learning : Multimedia, media & data stream,			
Outcomes (Cr	Practice Hybrid Coding,	Practice Hybrid Coding, JPEG, MPEG Text Compression			
	Components of Multimed				
A SUBTOSET	Introduction to Virtual re	ality & Virtual rea	ality Systems,		
C PATA	04 (03 Theory + 01 Practical)	The state of the state of	TOTAL WIND		
6. Credit Value	Max. Marks: 100 = 80 Theory	+ 20 Min Pa	ssing Marks:40		
7. Marks	Internal Assessment				

Part B: Content of the Course Total number of Teaching-Learning – Hours-45 Hours				
I.	Introduction: Concept of Multimedia, media & data stream, Main properties of multimedia system, Data stream characteristics of continuous media, multimedia Applications, Hardware and software requirements, Multimedia Products & its evolution.			
п.	Components of Multimedia: Text, Basic sound concepts, MIDI, Speech, Basic concept of Images, Graphics format, Overview of image processing, Basic concepts of Video & animation, Conventional system, Transmission, Enhanced system, High Definition system, Computer based animation, Design & authoring Tools, Categories of Authority Tools, Types of products.	11		
111.	Data Compression: Coding Requirement, Source, Entropy, Hybrid Coding, JPEG, MPEG, Text Compression using Static Huffman Technique, Dynamic Huffman Technique, Statistical coding technique.			
IV.	Virtual Reality: Introduction to Virtual reality & Virtual reality Systems, Related Technologies: Tele-operation & augmented reality system VRML Programming, Domain Dependent Application like Medical, Visualization Visibility computation Time Critical rendering,	11		