

G. B. N. Govt. Polytechnic, Nilokheri

Lesson Plan

Name of the Faculty : Dr. Mansi Lather , Ms. Uma Kakkar
Discipline : Computer Engineering
Semester : 2nd
Subject : Multimedia Applications
Lesson Plan Duration : 15 weeks (from Jan 2025 to May 2025)
Work Load (Lecture) per week (in hours): Lectures-02 and Lab-04

Week	Theory		
	Lecture day	Topic (including assignment / test)	Practical's
1 st	1 st	Introduction to Multimedia System; Components and tools of multimedia	Study of Adobe Flash Tool
	2 nd	Applications of Multimedia	
2 nd	3 rd	Multimedia file audio/video format; Media, File Format and types of media files	Frame by Frame Animation
	4 th	Basic Multimedia hardware and software requirements. Quality, criteria and specification of hardware component	
3 rd	5 th	Difference between Analog and Digital Signal	Motion Tweening
	6 th	Modulation and Digital Recording; Search of Digital Recording by converting sound into numbers	
4 th	7 th	Sound Card Connection, History of Sound Card. Types of Sound Card; Area of computer to use sound card, advantages of external sound card	Shape Tweening
	8 th	Function of Playback and recording, MIDI, Components of MIDI, MIDI Connectors, Features and working of MIDI	
5 th	9 th	Revision	Practice
	10 th	Sessional 1	
6 th	11 th	Hardware Requirement for text	Single Layer Masking
	12 th	Software Requirement for text	
7 th	13 th	Coloring of Text	Double Layer Masking
	14 th	Fundamental Image Processing Steps	
8 th	15 th	Types of Image Processing	Adding Video Clips
	16 th	Digital Image Editing	
9 th	17 th	Class Test	Movie Clip, Buttons
	18 th	Animation Techniques	

10th	19th	Revision	Practice
	20th	Sessional 2	
11th	21st	Digital Video fundamentals	Publishing of Flash Movie
	22nd	Relationship between pixel and video bitrate	
12th	23rd	Steps to create high quality video	Study of Adobe Photoshop Tools
	24th	Digital Video Production Techniques	
13th	25th	Revision	Image Editing in Photoshop
	26th	Authoring Tools and their features	
14th	27th	Classification of Authorizing Tools	Applying Special Effects
	28th	Multimedia Project Planning and Costing	
15th	29th	Multimedia team	Practice
	30th	Sessional 3	