<b>LESSON PI</b>	LAN:	
Discipline:	Semester:	Name of the Teaching Faculty:
IT	5th	Ms.Supriya Mishra
Subject:	No. Of classes allotted per	Semester:
Computer	week : 4 periods per week	From Date: 01-08-2023 To 30-11-2023
Graphics &	(Mon, Tues, Thurs& Fri – 1	
Multimedia	period each)	
WEEK	CLASS DAY	THEORY /PRACTICAL TOPICS
1st	01-08-2023	Introduction to Computer Graphics & Syllabus Discussion
		What is Graphics?
	03-08-2023	1. Applications of Computer Graphics & Multimedia
		1.1 Computer graphics in CAD
		1.2 Presentation Graphics
		1.3 Computer Art
		1.4 Entertainment
		1.5 Education & Training
		1.6 Visualization
	04-08-2023	1.7 Image Processing
l	01 00 2023	1.8 Graphic User Interface
		1.9 Multimedia Concepts
		Recap & Discussion of Important Questions of Chapter 1
		2. Overview of Graphics System
2nd	07-08-2023	2.1 Graphics System
		2.2 Raster Scan Display
	08-08-2023	2.3 Random Scan Display
		Diff b/w Raster and Random Scan Display
	10-08-2023	2.4 Graphics Input Devices
		2.5 Graphics Software.
	+	Recap & Discussion of Important Questions of Chapter 2
		3. Graphics Output primitive
	11-08-2023	3.1 Points & Lines
		3.2 DDA Line Drawing Algorithm
3rd	14-08-2023	3.3 Bresenham's Line drawing Algorithm
	17-08-2023	3.4 Mid Point Circle algorithm
		3.5 Filled Area Primitives
	18-08-2023	3.6 Boundary fill algorithm and Flood fill algorithm
		Recap & Discussion of Important Questions of Chapter 3
4.1	21-08-2023	4. Two Dimensional Geometric Transformations
4th		4.1 Translation
		4.2 Rotation
	22 22 222	4.3 Scaling
	22-08-2023	4.4 Reflection
	24-08-2023	4.5 Shear
		4.6 Matrix representation and Homogenous coordinate
		system
		4.7 Composite transformation
		Recap & Discussion of Important Questions of Chapter 4
		5. Two Dimensional Viewing
	25-08-2023	5.1 Viewing pipeline

		5.2 Viewing coordinate reference frame
5th	28-08-2023	5.3 Window to view port coordinate transformation
		5.4 Line clipping concept
	29-08-2023	5.5 Polygon clipping concept
		Recap & Discussion of Important Questions of Chapter 5
	31-08-2023	6. Three Dimensional Object Representations
		6.1 Polygon surface
		6.2 Polygon table
		6.3 Plane equation
	04.00.2022	Class Test-1 (Tentative)
	01-09-2023	Assignment-1
	04-09-2023	6.4 Polygon mesh
6th		6.5 Quadric surfaces
		6.6 Sphere, Ellipsoid
	05-09-2023	6.7 Spline representation
	07-09-2023	6.8 Bezier curves & Surfaces
	00.00.000	6.9 B-Spline curves & surfaces
	08-09-2023	Recap & Discussion of Important Questions of Chapter 6
		7. Three Dimensional Geometric & Modeling
7.1	11-09-2023	Transformations
7th		7.1 Translation
		7.2 Rotation
	12-09-2023	7.3 Scaling
		7.4 Reflection
	14-09-2023	7.5 Shear
	15-09-2023	7.6 Composite transformation
		7.7 Modeling& Coordinate transformation.
Ottle	18-09-2023	Diff b/w 2d &3d transformations
8th		Recap & Discussion of Important Questions of Chapter 7
	21-09-2023	8. Three Dimensional Viewing
		8.1 Viewing pipeline
	22-09-2023	8.2 Viewing coordinates
0+b	25.00.2222	8.3 Parallel projection
9th	25-09-2023	8.4 Perspective projection
	26-09-2023	Diff b/w 2d &3d viewing
		8.5 Concept of 3D clipping.
	28-09-2023	Recap & Discussion of Important Questions of Chapter 8
		9. Illumination Model & Surface Rendering Methods
		9.1 Different light sources used in 3D modeling
		Diff b/w illumination model & surface rendering
	03-10-2023	9.2 Basic Illumination model
		9.3 Ambient light
10th		9.4 Diffuse reflection
		9.5 Specular reflection
		Recap & Discussion of Important Questions of Chapter 9
	05-10-2023	10. Introduction to Digital Audio

		10.1 Basics of Acoustics, Psychoacoustics
	06-10-2023	10.2 Musical sound and noise, elementary sound system
	00 10 2023	10.2 Masical south and holse, elementary south system
11th	09-10-2023	
110	10-10-2023	Internal Assessment (To be decided by Institution)
	12-10-2023	10.3 Microphones, Amplifiers,
		10.3 Digital audio formats
	13-10-2023	Diff b/w Lossy& lossless compression.
		2 27 to 2000 for 1000 compression.
12th	16-10-2023	10.4 Audio compression ( LPC)
	17-10-2023	10.4 Audio compression (Sub Band Encoding)
	19-10-2023	Diff b/w LPC and SBE
		Flowcharts(LPC and SBE)
		Recap & Discussion of Important Questions of Chapter 10
	20-10-2023	11. Introduction to Digital Image
		11.1 Vector and raster Graphics
		11.2 Digital representation of image, colour, 16 bit, 24 bit
		colour depth
13th	23-10-2023	
	24-10-2023	
	26-10-2023	Puja Holiday
	27-10-2023	
	30-10-2023	11.3 Colour Characteristics-Hue, saturation, Luminance
14th		11.4 Colour Palette
	31-10-2023	11.5 Image formats-JPEG, TIFF, BMP, GIFF)
	02-11-2023	Class Test-2 (Tentative)
		Assignment-2
	03-11-2023	11.6 Image evaluation
15th	06-11-2023	11.7Layers
	07-11-2023	11.8 Filters
		11.9 Image manipulation-scaling, cropping, rotation
	09-11-2023	Recap & Discussion of Important Questions of Chapter 11
	10-11-2023	12. Introduction to Video
		12.1 Video in Multimedia
		12.2 Basics of Motion-Video
16th	13-11-2023	12.3 Sources of Motion-Video
	14-11-2023	12.4 Video formats, lines, frames, fields
	16-11-2023	12.5 TV Broadcast standards-PAL, NTSC, SECAM
	17-11-2023	12.6 MPEG Compression
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17th	20-11-2023	Recap & Discussion of Important Questions of Chapter 12
	21-11-2023	Discussion of Important Questions of Chapters 1,2,3
	23-11-2023	Discussion of Important Questions of Chapters 4,5,6
	24-11-2023	Discussion of Important Questions of Chapters 7,8, 9
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18th	28-11-2023	Discussion of Important Questions of Chapters 10,11,12
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