

LESSON PLAN:		
Discipline: IT	Semester: 5th	Name of the Teaching Faculty: Ms. Supriya Mishra
Subject: Computer Graphics & Multimedia	No. Of Days per week class allotted: 4 periods per week (Mon, Tues, Wed & Thurs-1 period each)	Semester: From Date:01-09-2020 To 19-03-2021
WEEK	CLASS DAY	THEORY /PRACTICAL TOPICS
1st	01-09-2020	Identifying students in Google Meet Class
	02-09-2020	Identifying new students in Google Meet Class & Syllabus Discussion
	03-09-2020	Introduction to CGM
2nd	07-09-2020	Introduction to Graphics Diff b/w Graphics and Multimedia
	08-09-2020	1. Applications of Computer Graphics & Multimedia 1.1 Computer graphics in CAD 1.2 Presentation Graphics 1.3 Computer Art
	09-09-2020	1.4 Entertainment 1.5 Education & Training 1.6 Visualization
	10-09-2020	1.7 Image Processing 1.8 Graphic User Interface 1.9 Multimedia Concepts
3rd	14-09-2020	Recap of Chapter 1 Discussion on Possible Questions & Assignment (Ch 1)
	15-09-2020	2. Overview of Graphics System 2.1 Graphics System 2.2 Raster Scan Display
	16-09-2020	2.3 Random Scan Display
4th	21-09-2020	Diff b/w Raster and Random Scan Display
	22-09-2020	2.4 Graphics Input Devices
	23-09-2020	2.5 Graphics Software.
	24-09-2020	Recap of Chapter 2
5th	28-09-2020	Discussion on Possible Questions & Assignment (Ch 2)
	29-09-2020	3. Graphics Output primitive 3.1 Points & Lines
	30-09-2020	3.2 DDA Line Drawing Algorithm
	01-10-2020	3.3 Bresenham's Line drawing Algorithm
6th	05-10-2020	3.4 Mid Point Circle algorithm
	06-10-2020	3.5 Boundary fill algorithm
	07-10-2020	3.6 Flood fill algorithm
	08-10-2020	Diff b/w DDA Line Drawing Algorithm & Bresenham's Line drawing Algorithm
7th	12-10-2020	Diff b/w Bresenham's Line drawing Algorithm and Mid Point Circle algorithm

	13-10-2020	Diff b/w Boundary fill algorithm & Flood fill algorithm
	14-10-2020	Recap of Chapter 3
	15-10-2020	Discussion on Possible Questions & Assignment (Ch 3)
8th	19-10-2020	4. Two Dimensional Geometric Transformations 4.1 Translation 4.2 Rotation
	20-10-2020	4.3 Scaling 4.4 Reflection
	21-10-2020	4.5 Shear
	22-10-2020	Puja Holiday (22-10-2020 – 01-11-2020)
9th	02-11-2020	4.6 Matrix representation and Homogenous coordinate system 4.7 Composite transformation
	03-11-2020	Recap of Chapter 4
	04-11-2020	Discussion on Possible Questions & Assignment (Ch 4)
	05-11-2020	Internal Assessment 1 (Chapter 1 – 4)
10th	09-11-2020	5. Two Dimensional Viewing 5.1 Viewing pipeline 5.2 Viewing coordinate reference frame
	10-11-2020	5.3 Window to view port coordinate transformation
	11-11-2020	5.4 Line clipping concept 5.5 Polygon clipping concept
	12-11-2020	Recap of Chapter 5 Discussion on Possible Questions & Assignment (Ch 5)
11th	16-11-2020	6. Three Dimensional Object Representations 6.1 Polygon surface 6.2 Polygon table 6.3 Plane equation
	17-11-2020	6.4 Polygon mesh 6.5 Quadric surfaces 6.6 Sphere, Ellipsoid
	18-11-2020	6.7 Spline representation
	19-11-2020	6.8 Bezier curves & Surfaces 6.9 B-Spline curves & surfaces
12th	23-11-2020	Recap of Chapter 6
	24-11-2020	Discussion on Possible Questions & Assignment (Ch 6)
	25-11-2020	7. Three Dimensional Geometric & Modeling Transformations 7.1 Translation 7.2 Rotation
	26-11-2020	7.3 Scaling 7.4 Reflection
13th	01-12-2020	7.5 Shear
	02-12-2020	7.6 Composite transformation Diff b/w 2d & 3d transformations
	03-12-2020	Recap of Chapter 7

14th	07-12-2020	Discussion on Possible Questions & Assignment (Ch 7)
	08-12-2020	8. Three Dimensional Viewing 8.1 Viewing pipeline 8.2 Viewing coordinates
	09-12-2020	8.3 Parallel projection 8.4 Perspective projection
	10-12-2020	Diff b/w 2d & 3d viewing 8.5 Concept of 3D clipping
15th	14-12-2020	Recap of Chapter 8
	15-12-2020	Discussion on Possible Questions & Assignment (Ch 8)
	16-12-2020	Internal Assessment 2 (Chapter 5 – 8)
	17-12-2020	Diff b/w illumination model & surface rendering 9. Illumination Model & Surface Rendering Methods 9.1 Different light sources used in 3D modeling
16th	21-12-2020	9.2 Basic Illumination model 9.3 Ambient light 9.4 Diffuse reflection 9.5 Specular reflection
	22-12-2020	Recap of Chapter 9 Discussion on Possible Questions & Assignment (Ch 9)
	23-12-2020	10. Introduction to Digital Audio 10.1 Basics of Acoustics, Psychoacoustics 10.2 Musical sound and noise, elementary sound system
	24-12-2020	Winter Vacation (25-12-2020 – 31-12-2020)
17th	04-01-2021	10.3 Microphones, Amplifiers,
	05-01-2021	10.3 Digital audio formats Diff b/w Lossy & lossless compression.
	06-01-2021	10.4 Audio compression (LPC)
	07-01-2021	10.4 Audio compression (Sub Band Encoding)
18th	11-01-2021	Diff b/w LPC and SBE Flowcharts (LPC and SBE)
	12-01-2021	Recap of Chapter 10
	13-01-2021	Discussion on Possible Questions & Assignment (Ch 10)
19th	18-01-2021	11. Introduction to Digital Image 11.1 Vector and raster Graphics 11.2 Digital representation of image, colour, 16 bit, 24 bit colour depth
	19-01-2021	11.3 Colour Characteristics-Hue, saturation, Luminance 11.4 Colour Palette
	20-01-2021	11.5 Image formats-JPEG, TIFF, BMP, GIFF)
	21-01-2021	11.6 Layers
20th	25-01-2021	11.7 Filters
	27-01-2021	11.8 Image manipulation-scaling, cropping, rotation
	28-01-2021	Recap of Chapter 11

21st		Mid-Semester Internal Test (01-02-2021 – 05-02-2021)
22nd	08-02-2021	Discussion of Internal Test Question Paper
	09-02-2021	Discussion on Possible Questions & Assignment (Ch 11)
	10-02-2021	12. Introduction to Video 12.1 Video in Multimedia 12.2 Basics of Motion-Video 12.3 Sources of Motion-Video
	11-02-2021	12.4 Video formats, lines, frames, fields
23rd	15-02-2021	12.5 TV Broadcast standards-PAL,NTSC,SECAM
	17-02-2021	12.6 MPEG Compression
	18-02-2021	Recap of Chapter 12
24th	22-02-2021	Discussion on Possible Questions & Assignment (Ch 12)
	23-02-2021	Internal Assessment 3 (Chapter 9 – 12)
	24-02-2021	Recap of Chapter 1
	25-02-2021	Recap of Chapter 2
25th	01-03-2021	Recap of Chapter 3
	02-03-2021	Recap of Chapter 4
	03-03-2021	Recap of Chapter 5
	04-03-2021	Recap of Chapter 6
26th	08-03-2021	Recap of Chapter 7
	09-03-2021	Recap of Chapter 8
	10-03-2021	Recap of Chapter 9
27th	15-03-2021	Recap of Chapter 10
	16-03-2021	Recap of Chapter 11
	17-03-2021	Recap of Chapter 12
	18-03-2021	Last Date for submission of Notes by students