

Lesson Plan

Name of Faculty : Ms. Prachi, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 5th (odd)
Subject : Computer graphics (PCC-CSE-11-T)
Lesson Plan Duration : 15 weeks (from August to Dec-2024)

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1.	What is Computer Graphics			
	2.	Computer Graphics Applications			
	3.	Computer Graphics Hardware and software			
2 nd	4	Points and Lines			
	5	Line drawing algorithms: DDA			
	6	Bresenham"s; Circle drawing algorithms			
3 rd	7	Bresenham"s circle drawing			
	8	mid point circle drawing algorithm			
	9	Filled area algorithms			
4 th	10	boundary filled algorithm			
	11	Two/Three Dimensional Viewing			
	12	The 2-D viewing pipeline			
5 th	13	window to view port mapping			
	14	Clipping: point, clipping line (algorithms):- 4 bit code algorithm			
	15	Sutherlandcohen algorithm			
6 th	16	Polygon clipping algorithm			
	17	Sutherland-Hodgeman			
	18	Two dimensional transformations			
7 th	1st Minor Test				
8 th	19	Three dimensional transformations: Three dimensional graphics concept			
	20	Matrix representation of 3-D Transformations			
	21	Viewing in 3D			
9 th	22	the mathematics of planner geometric projections			
	23	Hidden surface removal			
	24	Introduction to hidden surface removal			
10 th	25	scanline algorithm			
	26	Representing Curves and Surfaces			
	27	Parametric representation of curves			
11 th	28	Bezier curves			
	29	BSpline curves			
	30	Parametric representation of surfaces;			
12 th	31	Illumination, shading, image manipulation			
	32	Illumination models			
	33	shading models for polygons			
13 th	34	What is an image			
	35	Filtering			
	36	image processing			
14 th	2nd Minor Test				
15 th	37	Composition of 3-D transformation			
	38	coordinate systems			
	39	composite transformation			