

SSN College of Engineering, Kalavakkam
Department of Computer Science and Engineering

Batch : 2013 - 2017

23-06-15
Class : V Sem A

CS6504 Computer Graphics - Lesson Plan

S.No	Unit	Topic	No. of Hours		Remarks
			Proposed	Actual	
1	I - Introduction	Introduction- Survey of Computer Graphics	1		
2		Overview of Graphics system ,Video Display Device	1		
3		Random & Raster Scan Systems	1		
4		Input Devices, Hard copy Devices & Graphics Softw	1		
5		DDA Line drawing algorithm	1		
6		Bresenham's line drawing algorithm	1		
7		Loading the frame buffer & Line Functions & Graap	1		
8		Midpoint circle algorithm	1		
9		Ellipse generating algorithm	1		
10		Pixel Addressing and Object Geometry	1		
11		Filled area primitives	1		
12	II - 2D Graphics	2D geometric transformations	1		
13		Matrix Representation and Composite transform	1		
14		Two Dimensional Viewing	1		
15		Window-to-viewport Coordinate transformation	1		
16		Two Dimensional Viewing Functions	1		
17		Line clipping	2		
18		Point & Polygon Clipping	2		
19	III - 3D Concepts	Polygon Surfaces, curved lines and surfaces and quadric surfaces, Blobby Objects	1		
20		Spline representations: Bezier curves and Surfaces	1		
21		B-spline curves and Surfaces	1		
22		3D Basic & Composite transformations	2		
23		3D Viewing	1		
24		Parallel projection	1		
25		Perspective projection	1		
26		Clipping & Visible surface detection methods	2		
27	IV- Illumination & Color Models	Light Sources & Basic Illumination Models	2		
28		Halftone Patterns and Dithering Techniques	1		
29		Properties of Light- Standard primaries and Chroma	1		
30		Color models - RGB, YIQ	1		
31		CMY, HSV color models	1		
32		HLS Colour model & Color selection	1		
33	V- Animations & Realism	Design of Animation sequences , Animation Functions & Raster Animation	1		
34		Key Frame Systems & Morphing	1		
35		Motion Specification & Tweening	1		
36		Tiling the plane	1		
37		Recursively defined curves- Koch Curves	1		
38		C Curves , Dragons & Space filling curves	1		
39		Fractals	2		
40		Grammar based models, Turtle Graphics	1		
41		Ray Tracing	1		

Total no.of hours 47

Prepared by

Approved by

S.Lakshmi Priya

HOD/CSE