

COURSE PLAN

Session No	Topics to be covered	Teaching Methodology
UNIT - I		
1	Subject Introduction and Syllabus Discussion	BB
2	Introduction To Computer Graphics, History, Applications of CG.	BB
3	Image Processing & CG	BB
4	Graphics Systems: Video Display Devices	BB
5	Types of Video Display Devices	BB
6	Raster Scan Systems	BB
7	Random Scan Systems	BB
8	Input Devices	BB
9	Input Devices & Hard Copy Devices	BB
10	Graphics Software	BB
11	Revision of UNIT I	GD
Unit Test - I		
UNIT - II		
12	Output Primitives And Their Attributes	BB
13	Line Drawing Algorithm-DDA	PPT
14	Line Drawing Algorithm- Bresenham's	PPT
15	Circle Generating(Mid-Point) Algorithm	PPT
16	Circle Generating (Mid-Point) Algorithm- problem solving with example.	PPT
17,18	Ellipse Generating(Mid-Point) Algorithm	PPT
19	Area Filling Algorithms: Bounda0-pry fill & Flood fill	BB
20	Line Attributes	BB
21	Color and Grayscale Levels	BB

22	Character Attributes, Inquiry Functions	BB
23	Revision of UNIT II	GD
CIA TEST - I		
UNIT - III		
24	Two-Dimensional Transformations And Viewing : Simple Transformations	PPT
25	Matrix Representations and Homogeneous Coordinates	PPT
26	Composite Transformations: Translations, Rotation and Scaling	PPT
27	Other Transformations: Reflection & Shearing	BB
28	Window-to- Viewport Coordinate Transformation	BB
29	Clipping : Introduction and types	BB
30	Clipping Algorithms: Cohen Sutherland Line Clipping	BB
31	Clipping Algorithms: Sutherland- Hodgeman Polygon	BB
32	Basic Modeling Concepts	BB
33	Interactive Input Methods- Logical classification of I/P devices	BB
34	Interactive Picture-Construction Techniques: VR	BB
35	Revision of UNIT III	GD
Unit Test - III		
UNIT - IV		
36	Three-Dimensional Concepts	Seminar
37	Three-Dimensional Display Methods: Parallel and Perspective Projections	Seminar
38	Depth Cueing , Visible Line and Surface Identification	BB
39	Visible Line and Surface Identification, Polygon Table	BB
40	Plane Equations, Polygon Meshes	BB
41	3D Transformation: Simple & Composite	Seminar
42	Revision of UNIT IV	GD

CIA TEST - II		
UNIT - V		
43	Three dimensional viewing pipeline	BB
44	Projection Transformations: Parallel & Perspective	Seminar
45	Hidden Surface and Hidden Line Elimination Methods: Back-Face Detection	BB
46	Depth-Buffer Detection Method, A-Buffer Detection Method	BB
47	Wireframe Method	Seminar
48	Back face removals	BB
49	Revision of UNIT V	BB
REVISION		
50	Revision of UNIT I	BB
51	Revision of UNIT II	BB
52	Revision of UNIT III	BB
53	Revision of UNIT IV	BB
54	Revision of UNIT V	BB
CIA TEST - III		

Name & Signature	Prepared by	Approved by
	Mrs.S.Meenakshi Mrs.S.Janet Grace Susila Dr.C.Meenakshi	Dr.V.Umadevi
	Designation	Asst.Professor / BCA
Date		

