Department Of Computer Science

Teaching Plan

Discipline   :   **Computer Science (Honours)**
Semester   :   **Six**
Paper Code   :   **CC14P**
Subject   :   **Computer Graphics Lab**
Name of the faculty :   **Soumya Chakraborty**
Duration: 21st February,2023 to 10th June,2023

Sl No	Topics	No of Lectures	Duration in Hours
1	Write a program to implement Bresenham's line drawing algorithm.	2	4
2	Write a program to implement mid-point circle drawing algorithm.	2	4
3	Write a program to clip a line using Cohen and Sutherland line clipping algorithm.	2	4
4	Write a program to clip a polygon using Sutherland Hodgeman algorithm.	2	4
5	Write a program to apply various 2D transformations on a 2D object (use homogenous coordinates).	2	4
6	Write a program to apply various 3D transformations on a 3D object and then apply parallel and perspective projection on it.	2	4
7	Write a program to draw Hermite/Bezier curve.	2	4

Reference Book:

1. Computer Graphics by D. Hearn, M. Baker, Prentice Hall of India, 2008.