M.Sc. I (Sem II) (Computer Science)

**Computer Graphics**

**Session 2020-21**

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to implement

DDA line drawing algorithm.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ for Bresenham’s

line drawing algorithm.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to Draw a Circle

using Mid - Point Algorithm.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to Draw an

Ellipse using Mid - Point Algorithm.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to check point in polygon is inside or outside.
2. Write an Algorithm, Draw the Flowchart and execute a program in c++ for filling a

Polygon using scan fill.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to demonstrate

Translation transformation.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to demonstrate

Scaling Transformation.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to demonstrate

Rotation transformation.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ to demonstrate

Reflection transformation.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ for polygon

clipping consider appropriate window size.

1. Write an Algorithm, Draw the Flowchart and execute a program in c++ for cohen-sutherland line clipping algorithm.
2. Write an Algorithm, Draw the Flowchart and execute a program in c++ for Bezier curve.
3. Write an Algorithm, Draw the Flowchart and execute a program in c++ for Gorum and Shading algorithm.
4. Write an Algorithm, Draw the Flowchart and execute a program in c++ for graphics function for color model.

Head

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