Lesson Plan

Name of Faculty : Prachi, Assistant Professor of CSE Discipline : Computer Science and Engineering Semester : 7th (odd)

Subject : computer graphics lab Lesson Plan Duration : 15 weeks ( sept-dec 2022)

Work Load (Lecture/Practical) per week (in hours): Lectures-03hours, Practical-02 hours

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| **Week** | **Theory/ Practical (Group-I/ II)** | | **Topic Covered Date and Remarks** | | |
| **Practical Day** | **Topics/ Programs** | **Date** | **HOD** | **Director- Principal** |
| **1st** | **1** | Write a program to draw a line using  DDA algorithm. |  |  |  |
| **2nd** | **2** | Write a program to draw a line using bresenham’s algorithm for lines with slopes   1. negative and less than I 2. positive and less than I. 3. positive and greater than l. 4. negative and greater than l. |  |  |  |
| **3rd** | **3** | A program to draw a circle using Bresenhanr,s circle Algorithm. |  |  |  |
| **4th** | **4** | A program to draw a circre using Midpoint circre Argorithm |  |  |  |
| **5th** | **5** | Aprogram to draw an ellipse using Midpoint Ellipse Algorithm. |  |  |  |
| **6th** | **6** | Aprogram to fill'different tlpes of  geometric shapes using Flood Fill. Algorithm |  |  |  |
| **7th** |  | **Minor test 1st** | | |  |
| **8th** | **7** | A program to fill different types of geometric shapes using Boundary fill algo.  A prograrn to demonstrate window to view-port mapping. |  |  |  |
| **9th** | **8** | A program to clip a line segment using 4-bit code, argorithm. |  |  |  |
| **10th** | **9** | A program to draw a C-Curve of nth order A program that shows a scene of flying kite. |  |  |  |
| **11th** | **10** | A program to rotate a line about its mid-point. |  |  |  |
| **12th** | **11** | A program that shows a scene of eclipse. |  |  |  |
| **13th** | **12** | A program that translate and rotate a circle along a horizontal line. |  |  |  |
| **14th** |  | **Minor test 2nd** | | |  |
| **15th** | **13** | A program to rotate an ellipse about its major axis and minor axis alternatively. |  |  |  |