



# Fr. Conceicao Rodrigues College of Engineering

Father Agnel Ashram, Bandstand, Bandra –west, Mumbai-50

Department of Computer Engineering

## Practical Plan

<b>Class: SECB</b>		<b>Weekly Schedule:</b>				
<b>Course name/code: CSL303</b>		<b>Batch A: Friday, 11.00 AM to 1.00 PM</b>				
<b>Academic Year: 2023-24</b>		<b>Batch B: Wednesday, 01.30 PM to 03.30 PM</b>				
<b>Name of the teacher</b>		<b>Batch C: Tuesday, 01.30 PM to 03.30 PM</b>				
<b>Prof. Sushma Nagdeote</b>		<b>Batch D: Monday, 01.30 PM to 03.30 PM</b>				
<b>Course Outcomes:</b>						
CSL303.1. Implement various output and filled area primitive algorithms						
CSL303.2. Apply transformation and clipping algorithms on graphical objects.						
CSL303.3. Perform curve and fractal generation methods.						
CSL303.4. Develop a Graphical application/Animation based on learned concept						
<b>Sr. No.</b>	<b>Title of experiment</b>	<b>Course Outcomes</b>	<b>Batch</b>	<b>Planned date</b>	<b>Actual date</b>	<b>Remark</b>
1	a. Implementation of DDA (Digital Differential Analyzer) algorithm. b. Implementation of Bresenham Line Drawing algorithm.	CO1	D	24-07-23		
			C	25-07-23		
			B	26-07-23		
			A	28-07-23		
2	Implementation of mid-point circle generation algorithm.	CO1	D	31-08-23		
			C	01-08-23		
			B	02-08-23		
			A	04-08-23		



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3	Implementation of mid-point ellipse drawing algorithm.	CO1.	D	07-08-23	
			C	08-08-23	
			B	09-08-23	
			A	11-08-23	
4	Implementation of Fill (seed fill) algorithm. a) Boundary fill b) Flood fill	CO1.	D	14-08-23	15-08-23 & 16-08-23 Holiday
			C	22-08-23	
			B	23-08-23	
			A	18-08-23	
5	To fill the polygon using scanline polygon filling algorithm	CO1.	D	21-08-23	
			C	22-08-23	
			B	23-08-23	
			A	25-08-23	
6	To Perform 2D Basic Transformations of 2D Object. Perform a) Translation b) scaling c) Rotation	CO2	D	04-09-23	
			C	05-09-23	
			B	06-09-23	
			A	08-09-23	
7	To implement Reflection and shear on 2D objects.	CO2	D	11-09-23	
			C	12-09-23	
			B	13-09-23	
			A	15-09-23	
8	To implement a) Cohen – Sutherland Line Clipping algorithm b) Liang-Barsky Line Clipping Algorithm	CO2	D	18-09-23	
			C	19-09-23	
			B	20-09-23	
			A	22-09-23	



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9	Implementing Bezier curves	CO3	D	25-09-23	
			C	26-09-23	
			B	27-09-23	
			A	29-09-23	
10	Fractal generation	CO3	D	16-10-23	
			C	03-10-23	
			B	04-10-23	
			A	20-10-23	
11	CG Mini Project (Submission)	CO4	D	16-10-23	
			C	03-10-23	
			B	04-10-23	
			A	20-10-23	

**Course Instructor: Prof. Sushma Nagdeote**