

# **LAPORAN PRAKTIKUM GRAFIKA KOMPUTER**

## **“Algoritma Pembuatan Kurva Bezier”**

*Disusun untuk memenuhi tugas mata kuliah Grafika Komputer*



**Dosen Pengampu :**

Wartariyus., S.Kom, M.T.I

**Disusun Oleh:**

Nama : Dini Artika Rahmawati

NPM : 2413025014

Kelas : PTI 24B

**PROGRAM STUDI PENDIDIKAN TEKNOLOGI INFORMASI  
JURUSAN PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN  
UNIVERSITAS LAMPUNG**

**2025**

## A. Pengertian Kurva Bezier

Kurva Bézier adalah garis lengkung yang dibentuk dari titik-titik kontrol. Kurva ini tidak harus melewati semua titik kontrol, tapi bentuknya dipengaruhi oleh titik-titik itu.

**Kurva Bézier dipakai untuk:**

- Membuat desain grafis vektor (seperti di Adobe Illustrator, CorelDRAW)
- Menggambar font
- Animasi gerakan di aplikasi
- Jalur robot di pemrograman

## B. Jenis Kurva Bézier

1. Kurva Bézier Linear
2. Kurva Bézier Kuadratik
3. Kurva Bézier Kubik

## C. Implementasi Kurva Bezier menggunakan HTML dan CSS.

```
<? index.html > <? html > <? head > <? style
1 <!DOCTYPE html>
2 <html lang="id">
3 <head>
4 <meta charset="UTF-8">
5 <title>Taman Mini</title>
6 <style>
7   body {
8     margin: 0;
9     background: linear-gradient(to top, #87ceeb, #ffffff);
10    overflow: hidden;
11  }
12
13  .container {
14    position: relative;
15    width: 100vw;
16    height: 100vh;
17  }
18
19  .cloud {
20    position: absolute;
21    background: #fff;
22    border-radius: 50%;
23  }
24
25  .cloud1 { width: 120px; height: 60px; top: 80px; left: 100px; }
26  .cloud2 { width: 100px; height: 60px; top: 80px; left: 150px; }
27  .cloud3 { width: 110px; height: 70px; top: 60px; left: 125px; }
28  .cloud4 { width: 120px; height: 60px; top: 60px; left: 550px; }
29  .cloud5 { width: 100px; height: 60px; top: 70px; left: 600px; }
30  .cloud6 { width: 110px; height: 70px; top: 50px; left: 575px; }
31
32  .tree {
33    position: absolute;
34  }
35
36  .trunk {
37    width: 30px;
38    height: 120px;
39    background: #8B4513;
40    border-radius: 5px;
41    margin: auto;
42  }
```

```

44 .leaves {
45     position: absolute;
46     top: -60px;
47     left: -35px;
48     width: 100px;
49     height: 90px;
50     background: #2E8B57;
51     border-radius: 50% 40% 50% 40%;
52     transform: rotate(-10deg);
53     box-shadow: -10px -10px 0 #2E8B57, 10px -10px 0 #2E8B57;
54 }
55
56 .tree.middle { left: 385px; top: 300px; }
57 .tree.left { left: 150px; top: 320px; }
58 .tree.right { left: 620px; top: 320px; }

```

```

60 .pot {
61     width: 60px;
62     height: 40px;
63     background: #A0522D;
64     position: absolute;
65     border-top-left-radius: 20px;
66     border-top-right-radius: 20px;
67 }
68
69 .stem {
70     width: 4px;
71     height: 50px;
72     background: green;
73     position: absolute;
74     top: -50px;
75     left: 28px;
76 }

```

```

78 .flower-center {
79     width: 20px;
80     height: 20px;
81     background: yellow;
82     border-radius: 50%;
83     position: absolute;
84     top: -65px;
85     left: 20px;
86 }
87
88 .petal {
89     width: 16px;
90     height: 16px;
91     background: pink;
92     border-radius: 50%;
93     position: absolute;
94 }
95

```

```

96 .petal1 { top: -75px; left: 10px; }
97 .petal2 { top: -75px; left: 30px; }
98 .petal3 { top: -55px; left: 10px; }
99 .petal4 { top: -55px; left: 30px; }
100
101 .flower {
102     position: absolute;
103 }
104
105 .flower1 { left: 100px; top: 480px; }
106 .flower2 { left: 300px; top: 480px; }
107 .flower3 { left: 550px; top: 480px; }
108

```

```

109 </style>
110 </head>
111 <body>
112   <div class="container">
113     <!-- Awan -->
114     <div class="cloud cloud1"></div>
115     <div class="cloud cloud2"></div>
116     <div class="cloud cloud3"></div>
117     <div class="cloud cloud4"></div>
118     <div class="cloud cloud5"></div>
119     <div class="cloud cloud6"></div>
120
121     <div class="tree middle">
122       <div class="trunk"></div>
123       <div class="leaves"></div>
124     </div>
125     <div class="tree left">
126       <div class="trunk"></div>
127       <div class="leaves" style="background: #3CB371; box-shadow: -8px -8px 0 #3CB371, 8px -8p
128     </div>
129     <div class="tree right">
130       <div class="trunk"></div>
131
132     <div class="leaves" style="background: #3CB371; box-shadow: -8px -8px 0 #3CB371, 8px -8p
133   </div>
134
135   <div class="flower flower1">
136     <div class="pot"></div>
137     <div class="stem"></div>
138     <div class="flower-center"></div>
139     <div class="petal petal1"></div>
140     <div class="petal petal2"></div>
141     <div class="petal petal3"></div>
142     <div class="petal petal4"></div>
143
144   <div class="flower flower2">
145     <div class="pot"></div>
146     <div class="stem"></div>
147     <div class="flower-center" style="background: orange;"></div>
148     <div class="petal petal1" style="background: red;"></div>
149     <div class="petal petal2" style="background: red;"></div>
150     <div class="petal petal3" style="background: red;"></div>
151     <div class="petal petal4" style="background: red;"></div>
152   </div>
153
154   <div class="flower flower3">
155     <div class="pot"></div>
156     <div class="stem"></div>
157     <div class="flower-center" style="background: lightblue;"></div>
158     <div class="petal petal1" style="background: blue;"></div>
159     <div class="petal petal2" style="background: blue;"></div>
160     <div class="petal petal3" style="background: blue;"></div>
161     <div class="petal petal4" style="background: blue;"></div>
162   </div>
163 </div>
164 </body>
165 </html>
166

```

Hasil :

