Graphics 2 exercise classes

Exercise 9

Splines

- 1. Analyse Matlab script mySpline.m which generates a Bezier spline curve defined by four control points. The script uses additional functions (defined in Matlab file BezierP.m). Experiment by changing the control points and the increment in parameter u.
- 2. Enjoy creating interesting spline-patch surfaces using Matlab script splineSurf.m. Experiment by changing colours, surface properties (defined by ambient, diffuse and specular coefficiens), the size of rectangular grid, etc.
- 3. Using mySpline.m generate a curved path and create animation of a "red car" (represented as a red rectangle) moving along the path.
- 4. Extend mySpline.m to generate 3-dimensional Bezier spline curves. Plot the resulting curves using Matlab function plot3().