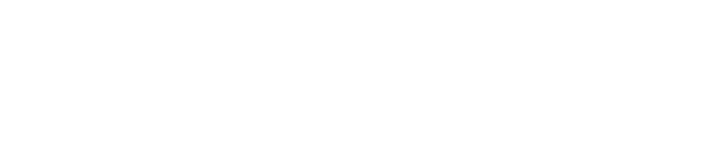
**Cairo University 3rd Level 2018-2019**



**Faculty of Computers and Information Computer Graphics-1**

**Graphics Project**

***Requirements:***

1. ***Implement 2D package which contains:***

Drop down list for the following algorithms:

1. Line algorithms [DDA, Midpoint and parametric]
2. Ellipse Algorithms [Direct, polar and midpoint]
3. Clipping using rectangle window and polygon shape as a clipped element
4. Showing your clipping step by step as GUI interface [Bonus]
5. Curves (bezier, hermite, splines)
6. Implement save function for all data in screen
7. Implement load function for loading data from files

.

1. ***3D Scene***
2. Control camera coordinates to see 3D scene from different directions

**Rules:**

1. Submission will be on **Sunday 5 May.**
2. No late submission.
3. -10 for copies.
4. Group of max 3 students from the same group.
5. Be ready to be asked about each function.