



# Course Weekly Outline

**Course Name: Computer Graphics**

<b>Course Instructor</b>					
<b>E-mail</b>					
<b>Title</b>					
<b>Course Coordinator</b>					
<b>Course Objective</b>	Computer Graphics				
<b>Course Description</b>	Provide students information about fundamental of computer graphics such as point, pixel, line, polygons, and objects operations such as translation, rotation, scaling and shearing.				
<b>Textbook</b>	Shirley, Peter, Michael Ashikhmin, Steve Marschner. <i>Fundamentals of Computer Graphics</i> . 3rd ed. A K Peters/CRC Press, 2009. ISBN: 9781568814698				
<b>References</b>	<ul style="list-style-type: none"> <li>Procedural Elements for Computer Graphics; 2nd Edn , D. F. Rogers, Tata McGraw-Hill, 2002.</li> <li>Computer Graphics using OpenGL; 2nd edn; F. S. Hill Jr; Pearson Education, 2003.</li> </ul>				
<b>Course Assessments</b>	TermTests	Laboratory	Quizzes	Project	Final Exam
	10 %	10 %	10 %	10 %	60 %
<b>General Notes</b>					

Republic of Iraq  
The Ministry of Higher Education  
& Scientific Research



University: Anbar  
College: CS & IT  
Department: Computer Science  
Stage: 3<sup>rd</sup>  
Instructor name:  
Academic status:  
Qualification:  
Place of work: Dept. of Comp. Science

## Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Introduction to Computer Graphics	2	
2		Elements of pictures created in computer graphics	2	
3		Polygons, Test, filled regions in raster image, representation of gray shades & color	2	
4		Graphics display devices	2	
5		Initial steps of drawing figures	2	
6		Addition drawing tools (graphics instructions)	2	
7		Graphics Algorithms (DDA, Bresenham, Circle, ...)	2	
8		Transformation of objects	2	
9		Points and objects transformations with examples	2	
10		Geometric effects of 2D transformations and examples	2	
11		Rotations with various examples	2	
12		Scaling with various examples	2	
13		Shearing with various examples	2	
14		Reflection with various examples	2	
15		Shading with various examples	2	

**Instructor Signature:**

**Dean Signature:**