### Computer Graphics using OpenGL

introduction

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# Computer Graphics using OpenGL Naeem Iqbal Ch naeemiqbalch@gmail.com Text: Computer Graphics using OpenGL, F.S. Hill, Jr. Grading: Assignments: 10 Quiz: 10 Others(Attendance) 5

#### What is this course about?

- to learn essential computer graphics concepts
- to learn how to write computer graphics applications in OpenGL.

#### **Prerequisites**

Final: 50

You will get the most out of this course if you:

 have C or C++ programming experience (essential for completing home works!)

Presentation 25 marks (No presentation No internal marks)

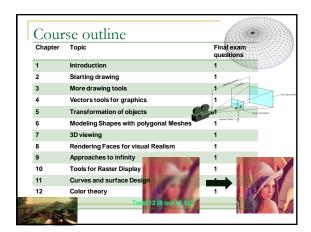
No prior knowledge of graphics is assumed

#### **Required Textbooks**

- Computer Graphics Using OpenGL, by Fra ncis S. Hill, Jr., 2 edition ,Prentice Hall, ISBN: 0023548568
- OpenGL Programming Guide,
   Fifthedition:The Official Guideto Learning
   OpenGL, version2, by Wooetal.,
   AddisonWesley, ISBN:0201604582

#### **Required Software**

- Microsoft Visual C++ 6
- OpenGl files
- All software that you write for your home works will have to compile under Microsoft Visual C++ 6



#### What is Computer Graphics?

Computers...

accept, process, transform and present information.

Computer Graphics...

involves technology to accept, process, transform and present information in a visual form.

## Ok but... what is the course really about? Graphics algorithms Graphics data structures

Graphics algorithms
Graphics data structures
Color and human vision
Graphical interface design and programming
Modeling, Animation, Rendering

What its not about?

Photoshop, AutoCAD, Maya, Renderman, Graphics APIs.

 $... \textbf{WOW}, \ programming \ in \ OpenGL \ \ and \ computer \ science!!$