

ĐẠI HỌC ĐÀ NẪNG

TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG VIỆT - HÀN

VIETNAM - KOREA UNIVERSITY OF INFORMATION AND COMMUNICATION TECHNOLOGY

한-베정보통신기술대학교

Nhân bản – Phụng sự – Khai phóng

Overview of CG course

Computer Graphics





- Introduction to Computer Graphics
- OpenGL, WebGL
- Two-Dimensional Graphics
- Three-Dimensional Graphics
- Curves and Surfaces
- Advanced Graphics Techniques

No of credits: 3

Lectures: 2

Practice: 1



- Good programming skills in Python or C/C++
- Data Structures & Algorithms
- Simple Linear Algebra
- Geometry



- On-going assessments:
 - Diligence (D Attendance): 10%
 - Assignments (A Presentation based on project): 20%
 - Workshops (W Personal programming practice): 20%
- Final exam (FE written exam): 50%
- Total score = 0.1*D + 0.2*A + 0.2*W + 0.5*FE



- [1].Hearn, Baker & Carithers, Computer Graphics with OpenGL, Pearson, 4th edition, 2014
- [2].Edward Angel & Dave Shreiner, Interactive Computer Graphics:
 A top-down approach with shader-based OpenGL, Addison Wesley,
 6th edition, 2012
- [3].Dave Shreiner, The OpenGL Programming Guide, The Redbook, Addison-Wesley, 8th edition, 2013
 (www.opengl.org: Standards documents, Sample code)

[4]. Slides

Language programming: Python, C++, Java





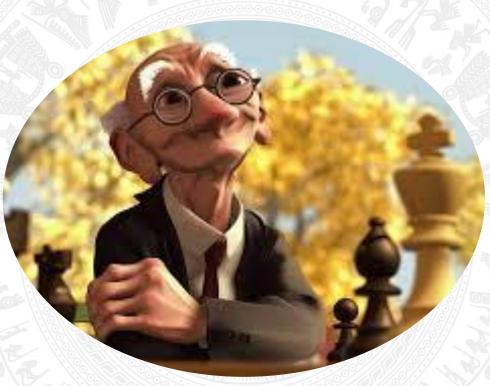
- Download and install Dev-C++ (http://www.bloodshed.net)
- The installation with a simple C program
- Download and install GLUT
 - Download GLUTMingw32
 - glut.h ⇒C:\Program Files (x86)\Dev-Cpp\MinGW32\include\GL

 - glut32.dll ⇒ C:\Windows\System32 (or similar location)
 - Tell the linker where the libraries are by:
 - clicking Tools/Compiler Options/Compiler/Add the following commands when calling the linker
 - adding -lglut32 -lglu32 -lopengl32 (should be added in that order)
- Test Dev-cpp with GLUT



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Enjoy the Course...!

Computer Graphics