BBM 414 - COMPUTER GRAPHICS LAB.

SYLLABUS

Instructor:
Asst. Prof. Ufuk Çelikcan
e-mail: celikcan@hacettepe.edu.tr
office: Room 218 of the Dept. of Computer Engineering Building.
office hours: you may walk in anytime I am available at my office or you may request a meeting by sending an e-mail to the address above.

TA:
Öner Barut
e-mail: barutoner@gmail.com
office hours: To Be Announced

Textbook:
TBA

Subjects:
1- Introduction, Graphics Systems And Models
2- Graphics Programming
3- Geometric Objects And Transformations
4- Viewing
5- Lighting And Shading
6- From Vertices To Fragments
7- Discrete Techniques
8- Modeling And Hierarchy

Grading:
- There will be 5 experiments assigned during the semester.
- Submissions for the experiments can be prepared individually or as a team of 2 students.
  - An assignment team cannot have more than 2 members.
• Teams are **not** required to be the same teams in BBM412 term projects.

• Also, team members can change from assignment to assignment.

• In this spirit, students may submit one assignment individually and another assignment as a member of a team.

• Team members must explicitly be designated on the submitted assignment report.

- The assignments will be implemented in C/C++ with Shader-Based OpenGL.
- Each experiment will be announced at least two weeks before its deadline.
- Students are required to submit for at least 4 of these 5 assignments in order to not receive an F1 grade.
- Each submission is to include
  - the entire project directory including source files, header files, accessory files and the compiled executable in a zip file.
  - and a comprehensive report explaining the employed methods, description of functions, and any other crucial implementation detail that explain the code. If the submitted implementation is incomplete, i.e., the submission does not feature the described experiment in full, then the report is required to indicate these missing features and the methods that are tried to achieve them but failed.
- Submissions are not required to be complete as a whole. Separate parts and features of an experiment receives separate partial grades. **Any submission, no matter how incomplete it is, receives a partial grade as long as it includes a proper report as described above.**
- **A submission without a proper report is regarded as void, i.e., not submitted, and therefore receives a 0 grade.**
- The final grade will be the sum of the best 4 grades (each with a 25% weight) a student receives during the semester out of the possible 5 grades (one for each experiment).

- **EN ÖNEMLİ KISIMLARI ÖZETLERSEK:**
  - ÖDEVLER KİŞİSEL OLARAK VEYA EN FAZLA 2 KİŞİLİK TAKIMLAR HALİNDE YAPILIP TESLİM EDILEBİLİR.
  - **DÖNEM BOYUNCA VERİLECEK 5 ÖDEVDEN EN AZ 4 TANESİNİN TESLİM EDİLMESİ (SİSTEDE YÜKLENMESİ) GEREKİYOR. DERS NOTU TESLİM EDİLENLER ARASINDAN EN YÜKSEK NOT ALINAN 4 ÖDEV ÜZERİNDEN VERİLECEK.**

**Labs:**

The TA will be present at the designated BBM414 lab (classroom) throughout all lab sessions during the semester telling you about the assigned experiment, helping you overcome the implementation problems and guide you to rectify your errors.