PHYS 201 – Mechanics

Semester: Fall 2009
Lecture Hours: Tu, Th B1 – 9:30 – 10:45
Room: Eng. B15

Instructor: Alper Kiraz
Office: Sci 140
Phone: 1701
E-mail: akiraz@ku.edu.tr
Off. Hr: Tu, B4 14:00 – 15:15 or by appointment

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Prob. Sess.: Fr, B4 14:00-15:15 in SCI 129

Course Description: Review of vectors and matrices, orthogonal transformations; numerical simulations and animations of mechanical systems, kinematics and dynamics of particles; Newton's laws of motion; conservation laws; oscillations; central forces; orbits and scattering in a central force field; planetary motion; non-inertial reference frames; potential theory; the two-body problem.


Grading:
1st Midterm 20 %, (16 Nov. 2009)
2nd Midterm 20 %, (21 Dec. 2009)
 Homework 10 %
12 Quizzes 18% (1.5% per quiz)
Final 25% (to be announced)

Attendance Policy: If a student attends 90%-100% of the classes s/he obtains 7%, if a student attends 70%-90% of the classes s/he obtains 5%, if a student attends 50%-70% of the classes s/he obtains 3%.

Homework Policy: You may discuss the problems, consult your teachers and use the library and internet. However, the final submitted work should be totally yours. You must not submit work done in groups, transfer files or copy from a book.

Lecture Schedule:

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<td>Matrices, Vectors and Vector Calculus (App. A) / Introduction (Ch. 1)</td>
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