Physics 221 Lab Section 002 Syllabus

Spring 2010

Instructor: Ao Teng  Email: ateng1@utk.edu or tenga@ornl.gov

Meeting Time: Thursday 2:30pm-4:25pm, Room 508

Lab schedule: http://www.phys.utk.edu/labs/S10ph221syl.pdf

Office Hours: Thursday 1:20pm-2:20pm or by appointment, Tutorial center

Textbook: “Contemporary Introductory Physics Experiments” by Dr. James Parks,

Other resources: A History of Science, Technology and Philosophy: in the 16th, 17th and 18th centuries (Abraham Wolf) and Wikipedia

Grading Policy:

Attendance: 5% (Please let me know prior to the class if you couldn’t come)

Lab Reports: 85% (The lowest grade of lab report will not be considered)

Quizzes: 10%

Recitation:

Most of the time will be used to introduce the basic idea of the experiment, while occasionally we will discuss how to solve physics problems (If you have some problems which you couldn’t figure out by yourself, please send me email by Wednesday and attach the description of the problems, I will pick some of them to discuss with all the students during recitation).

Lab Write-ups:

Bring you lab reports at the beginning of the following lab session.
Your report should include:
Title: Your name, your partner’s name, course name, instructor’s name, date of experiment and date of submission
Introduction (Describe the physical phenomenon or experimental techniques in your own words)
Procedure (Provide a clear clue what you do)
Data & Analysis
Conclusion
I’m already tired to see the “identical” conclusions every time. Try to show me something new or unique. (Think critically!)
Extra credit: In my understanding, the intention of this lab is to train students how to design experiments, not just follow the instructions. So if you have some practical suggestion of modifying the experiment or any new idea of how to organize your own experiment to verify the concepts you have learned in lectures, extra credit will be made for you.