Physics 321 Assignments

- Thurs 21 Aug: Hand in chapter summary over the notes on relativistic kinematics. Prepare problem set 1, relativistic kinematics, problems 1-7 (by teams 1-7) for presentation.


- Thurs 28 Aug: Prepare problem set 2, relativistic dynamics, problems 1-5 (teams 8, 1, 2, 3, 4). Hand in chapter summary over relativistic dynamics.

- Tues 2 Sept: Hand in problem set 2. Hand in reading summary, Chapter I in Sommerfeld. (A lot of this is material with which you are already familiar. I will lecture on planetary motion on Tuesday and will ask various teams to make presentations on other material in Chapter I on Thursday. Stay tuned!)

- Thurs 4 Sept:
  - Explanation of book sections:
    * Team 5 – Section I.4, variable masses.
    * Team 6 – Section I.5, kinematics (especially moments).
  - Explanation of problems:
    * Team 8 – problem I.8.
    * Team 1 – problem I.14.

- Tues 9 Sept: Hand in problem set 3, Sommerfeld chapter I, problems 4, 6, 8, 13, 14, 15.

- Thurs 11 Sept: Hand in reading summary for chapter II in Sommerfeld and for notes on the principle of virtual work.
  - Explanation of problems from notes:
    * Team 2 – problem 1.
    * Team 3 – problem 2.

- Tues 16 Sept: Hand in problem set 4, notes on principle of virtual work, problems 1, 2.

- Thurs 18 Sept: Work on problem set 5 on d’Alembert’s principle (problems in notes):
  - Team 4 – problem 1.
  - Team 5 – problem 2.
  - Team 6 – problem 3.
• Tues 23 Sept: Hand in problem set 5. Review session.

• Thurs 25 Sept: Test #1, in-class, closed book, closed notes. You may bring in a one-page reminder sheet.

• Tues 7 Oct: Hand in reading summary for notes on Lagrangian dynamics. You may wish also to look at Chapter VI of Sommerfeld. Also, work on problem set 6, problems 1-6 in the notes on Lagrangian dynamics:
  – Team 8 – problem 1.
  – Team 1 – problem 2.
  – Team 2 – problem 3.
  – Team 4 – problem 5.

• Thurs 9 Oct: Hand in problem set 6. DELAY until Tues 14 Oct, by popular demand!