

Spring Semester (2016)

School of Nano Science, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran

Lecturer: Ali Naji (School of Physics, IPM)

Tutor: Bahman Roostaei (School of Physics, IPM)

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**Homework #2: Thermodynamics & Statistical Mechanics: Basic principles (II)**      Due: April 12, 2016

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► Read “*Course of Theoretical Physics*”, Volume 5, Chapters 1 and 2, by L. D. Landau and E. M. Lifshitz.

**1:** We will continue to discuss this chapter in the tutor session. Students may be asked to present parts of this chapter.

**2:** Try to come up with few physical systems as examples to accompany your presentation.

► From “*Statistical Physics of Particles*” by Mehran Kardar, solve the following problems:

**3:** Chapter 1, Problem 9; Chapter 4, Problem 10; Chapter 5, Problem 4; Chapter 6, Problem 10