

Course Name: General Physics III (**Phys 203**)

Instructor Name: Dr. Hana'a S Farhan.

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Course time: Sun-Tue-Thu (9-10 in 65C).

Objectives of the course:

The objective of the course is to continue presentation of additional concepts of physics by studying Matter properties, oscillations, waves and the principles of thermodynamics.

Course Description:

The material covered in this course is concerned with oscillations, fluid mechanics, Elasticity, wave motion, Acoustic Phenomena, Temperature, quantity of heat, thermal Expansion, Heat transfer, Thermal of matter, Reflection, Refraction, Images from planes and spherical mirrors and surfaces.

Main text books:

Fundamental of Physics by Halliday, Resnick & Walker 2008 John Wiley & Sons.

Subsidiary books:

1- Physics for scientist and engineers with modern physics by Serway (2005).

2- Physics by Halliday, Resnick & Krane (2008) John Wiley & Sons.

Course Syllable:

Chapter(12): Equilibrium and Elasticity (only Sec 12-7).

Chapter(14): Fluids.

Chapter(15): Oscillations.

Chapter(16): Waves-I.

Chapter(17): Waves-II.

Chapter(16): Temperature, Heat, and First Law of thermodynamics.

Chapter(34): Images (1-6)