

General Physics 1 PHY 115

1 st year Semester one				
Course Title	Lecture	Tutorial	Practical	Credit Hours
General Physics 1	3	-	2	4

Course Description

The course gives an overview of general physics with more stress of the various form of energy . A series of extensive practical laboratory experiment are conducted to reinforce the theoretical aspect of the course.

Prerequisite

None.

Text Book

- (1) Michael Nelkon. Philip Parker . Advanced Level Physics. Science & Technology.UK. 2001.
- (2) David McMahan. Quantum Mechanics Demystified. Non-Fiction - Science & Technology - Physics - ISBN: 0071455469.2008
- (3) Ferdinand. Beer. Vector Mechanics for Engineers: Statics, SI Version - Beer . McGraw-Hill Publishing Co.2009

Course Objective

The course is designed to overview fundamental principles of physics required for a through understanding of medical radiation physics and radiation protection.

Class/Lab. Schedule

3-hours lectures , 2 hours practical.

Computer Application

None.

Laboratory Projects

Different Experiments In The physics Lab

Contribution of Course to Meeting the Professional Component

Basic science 4 credit hours .

Relationship of Course to Program Outcomes

This course will enhance the students :

- Ability to apply knowledge in Math to radiation physics applied in medical and health physics .

- This course will help the students in diagnostic and radio therapy field to apply knowledge about basic mathematic and physical theories, units of measurements to the application in the radiology field.
- Ability to understand and discuss the various type the radiation interaction methods to the radiation protection program, and application in the radiology field.

Prepared by

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