

مختصر توصيف المقرر

(Course Information)

معلومات المقرر*

اسم المقرر:	الفيزياء العامة 1 عملي
رقم المقرر:	فيز 1012
اسم ورقم المتطلب السابق:	--
اسم ورقم المتطلب المرافق:	--
مستوى المقرر:	الأول
الساعات المعتمدة:	1 (0+2+0)
Module Title:	General Physics I Lab.
Module ID:	PHYS 1012
Prerequisite:	--
Co-requisite:	--
Course Level:	First
Credit Hours:	1 (0+2+0)

Module

وصف المقرر :

Description

This course is the experimental part of the introductory course for the fundamental principles of physics in mechanics. The student will do experiments related to the theoretical phenomenon of: One and two dimensions, circular motions, collisions, linear and angular momentum, and elasticity.

Module Aims

أهداف المقرر :

1	Knowing and practicing the ethics of working in the laboratory.	1
2	The ability of using the measuring tools correctly	2
3	The student should be able to do the experiment by himself, and to collect data.	3
4	The ability to analyze data and write conclusions.	4

Learning Outcomes:

مخرجات التعليم:

1	Knowledge	1
2	Cognitive Skills <ul style="list-style-type: none"> To experimentally distinguish between the one and two-dimensional mechanics To analyze the schematics and diagrams related to it. To explain and justify the results obtained from the experiment 	2

3	Interpersonal Skills & Responsibility <ul style="list-style-type: none"> Practice the safety and organizing rules of the laboratories. To act with self-reliance when working independently. Displays teamwork and shows professional commitment to ethical practice. 	3
4	Communication, Information Technology and Numerical Skills <ul style="list-style-type: none"> To write laboratory reports, relate experiments to its related theories. To use software programs in writing, inserting and analyzing data, and plotting graphs. To develop the ability to argue scientifically with the instructor. To know how to use the computer program to analyze the data, and make some simulation To know how to search the web for any updated information concerning the assigned experiment. To analyze the data with good mathematics and theory. 	4
5	Psychomotor Not applicable.	5

Course Contents:

محتوى المقرر:

ساعات التدريس (Hours)	عدد الأسابيع (Weeks)	قائمة الموضوعات (Subjects)
2	1.0	Lab. Orientation and instructions.
2	1.0	Measurements experiment
2	1.0	Equation of motion experiment
2	1.0	Vector table experiment
2	1.0	Projectile motion experiment
2	1.0	Free fall experiment
2	1.0	Friction experiment
2	1.0	Simple pendulum experiment
2	1.0	Hook's law experiment
2	1.0	Inclined plane experiment
2	1.0	Rotational motion experiment
2	1.0	Collision and momentum
2	1.0	Oral Exam
2	1.0	Practical Exam

Textbook and References:

الكتاب المقرر والمراجع المساندة:

سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم الكتاب المقرر Textbook title
		<i>Prepared By Samir Al-Zobaidi</i>	Lab. Manuals
سنة النشر Publishing Year	اسم الناشر Publisher	اسم المؤلف (رئيسي) Author's Name	اسم المرجع Reference

9 th Ed. (2011)	Cengage Learning	<i>Raymond A. Serway, Chris Vuille</i>	College Physics <i>ISBN-10:0840062060</i>
9 th Ed. (2012)	John Wiley & Sons	<i>John D. Cutnell, Kenneth W. Johnson</i>	Physics <i>ISBN-10: 0470879521</i>
9 th Ed. (2013)	<i>Cengage Learning</i>	<i>Raymond A. Serway and John W. Jewett</i>	Physics for scientists and engineers <i>ISBN-10: 013805715X</i>