مختصر توصيف المقرر

معلومات المقرر* **(Course Information)**

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)

وصف المقرر : **Module 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.

أهداف المقرر : **Module Aims**

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

مخرجات التعليم: **Learning Outcomes:**

1	**Knowledge**	1
2	**Cognitive Skills** • 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** • 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** • 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
		Prepared By Samir Al-Zobaidi	Lab. Manuals
سنة النشر Publishing Year	**اسم الناشر Publisher**	**اسم المؤلف (رئيسي) Author's Name**	**اسم المرجع Reference**

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