



AMMAN - JORDAN

المستوى الذهبي

جامعة كل العرب

Course Syllabus
Faculty of Arts and Science

Academic Department: Basic Science and Humanities

Academic Year 2021 / 2022

Semester: Second

Course Title :	General Physics Lab (1)
Course No. :	1501121
Prerequisite :	1501120
Concurrent :	-
Department :	Basic Science and Humanities
Coordinator :	Dr. Abeer Adaileh
Mode of Instruction	<u>On- campus Learning</u> - 3 hours in-class (Synonym) learning

*** Instructor:**

Lecturer	Office Phone	Room No.	Office Hours	E-mail
Dr. Abeer Adaileh	A225	1281	10:00-11:00 Sun, Tue, Thu. 1:00-2:00 Thu. 10:00-11:00 Mon, Wed.	A_adayleh@asu.edu.jo

Course Description

This course contains 10 experiments relate to the theoretical course that is taught to students in General Physics (1). Students learn how to measure physical quantities and analyze the data. In addition to calculate the percentage error and difference. The experiments emphasize on mechanics such as motion at constant acceleration, Newton's laws of motion, projectile motion, conservation of mechanical energy, and simple harmonic motion.

Amman – Jordan _ عمان – الأردن: Amman – Jordan _ فاكس: 5232899 _ Tel: 5609999

رمز النموذج: UF 28 / 2

رقم القرار 24 / 233

تاريخ الاعتماد 2021/10/18



Intended Learning Outcomes

Upon the completion of the course, this module should lead to the following learning outcomes:

A. Knowledge and Understanding (Student should):

- A1 Understand the basic concepts in Physics lab.
- A2 Recognize lab equipment and components.
- A3 Realize the importance of Physics in our life.

B. Cognitive and Intellectual Skills (Student should):

- B1 Summarize conclusions based on observations and data.
- B2 Develop scientific and logical thinking.
- B3 Develop the ability to learn faster, easier and better.

C. Subject Specific Skills (Student should):

- C1 Compare experimental measured values to the accepted theoretical values.
- C2 Recognize safety instructions and procedures in the lab.

D. Transferable Skills (Student should):

- D1 Acquire experimental work skills
- D2 Acquire data analysis skills.
- D3 Demonstrate communication skills with others.

Program Learning Outcomes (PLOs):

1. -----
2. -----
3. -----
4. -----
5. -----

Course Learning Outcomes Alignment Matrix				
	CLO. 1	CLO. 2	CLO. 3	CLO. 4
PLO.1:	-	-	-	-
PLO 2:	-	-	-	-
PLO.3:	-	-	-	-
PLO.4:	-	-	-	-
PLO. 5	-	-	-	-



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Course Contents and Schedule

Week	Day and Date	Topics to be covered	Method of instruction	CLOs	PLOs
1	Mon. 6/3/2022	Introductions	In-class lecture	A1, B1	-
2	Mon. 14/3/2022	Error Analysis and Graph Drawing	In-class lecture	A1, A3, B3, C2	-
3	Mon. 21/3/2022	Measurements and Uncertainties	In-class lecture	A1, A2, B3, C2, D1, D2, D3	-
4	Mon. 28/3/2022	Instantaneous and Average Velocity	In-class lecture	B1, , A2,1A B2, D1, D2, D3	-
5	Mon. 4/4/2022	Force Table	In-class lecture	A1, A2, A3, B1, B2, C2.D1, D2, D3	-
6	Mon. 11/4/2022	Projectile Motion	In-class lecture	A1, A3, C2, B2, C2, D1	-
7	Mon. 18/4/2022	Newton's Second Law of Motion	In-class lecture	A1, A3, B1, C1, D1, D3	-
8	MID Term Exam				
9	Eid al-Fitr holiday				
10	Mon. 9/5/2022	Conservation of Mechanical Energy	In-class lecture	A1, A2, B1, B2, C1, D2	-
11	Mon. 16/5/2022	Friction	In-class lecture	A1, A3, B2, C1, D1, D2, D3	-
12	Mon. 23/5/2022	Simple pendulum	In-class lecture	A1, A2, C1, C2, D1, D2, D3	-
13	Mon. 30/9/2022	The Helical Spring	In-class lecture	A1, A3, B1, B3, C1, D1	-
14	Mon. 6/6/2022	Viscosity	In-class lecture	A1, A2, A3, B1, C1, D2, D3	-
15	Final Exam				



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Grading Plan and Assessment Tools

Assessment Tools	Weights	Due date
Mid-term	30%	-
Assignments	-	-
Quizzes	-	-
Inter active lectures	-	-
Group Work	-	-
Presentation	-	-
Reports	20%	-
Project	-	-
Case-Study	-	-
Final Exam	50%	-

Supplementary Reading

Textbook:

- 1- Lab Manual of Physics 1501121

References:

- 1- Physics for Scientists and Engineers, with Modern Physics; 9th edition, Serway/Jewett, 2014.



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Subject Coordinator

Dr. Abeer Adaileh

Signature:

د. أbeer أدايله

Head of Curriculum Committee

Dr. Husam Miqadad

Signature:

حسام ميقاداد

Department Head

Dr. Husam Miqadad

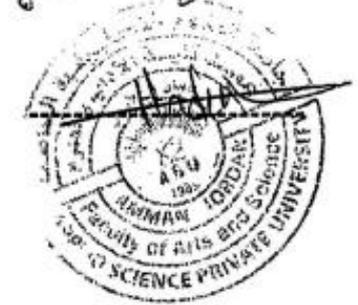
Signature:

حسام ميقاداد

Faculty Dean

Dr. Hadeel Ail saed

Signature:



Copy to:

- Department Head.
- Head of Curriculum Committee.
- Course File.

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