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جامعة كل العرب

Course Syllabus
Faculty of Arts and Science

Academic Department Basic Science and Humanities

Academic Year 2021 / 2022 Semester: First

Course Title :	General Physics (2) Lab
Course No. :	1501221
Prerequisite :	1501220
Concurrent :	-
Department :	Basic Science and Humanities
Coordinator :	Tasneem Alayed
Mode of Instruction	<u>On Campus Learning</u> - 3 hours in-class (Synonym) learning

*** Instructor:**

Lecturer	Office Phone	Room No.	Office Hours	E-mail
Tasneem Alayed	1412	215	Mon, Wed (12:30-2:00)	t_ibrahim@asu.edu.jo

Course Description

This course consists of a set of laboratory experiments related to the topics and principles of General Physics (2) offered along with it.

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 electric components and lab equipment.
- 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.*

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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

Course Contents and Schedule

Week	and Date Day	Topics to be covered	Method of instruction	CLOs	PLOs
1	Sun. 17/10/2021	Introduction	In-class lecture	A1,A2, C3	
2	Sun. 24/10/2021	Electrochemical Equivalent of Copper	In-class lecture	A1,A3, B2	
3	Sun. 31/10/2021	Electric Field and Equipotential Surfaces	In-class lecture	A1,A3, B2, C2, D3	
4	Sun. 7/11/2021	Resistors in Series and in Parallel	In-class lecture	A2,A3, B2,C1, D2	
5	Sun. 14/11/2021	The Potentiometer	In-class lecture	A3,B1, B3,C1,	



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				D2	
6	Sun. 21/11/2021	Determination of Unknown Resistance using Wheatstone Bridge	In-class lecture	A2,A3, B2,C1, D2	
7	Sun. 28/11/2021	The Resistivity of a Conductor using Wheatstone Bridge	In-class lecture	A2,A3, B2,C1, D2	
8.	MID Term Exam				
9	Sun. 12/12/2021	Charging and Discharging of Capacitor	In-class lecture	A2,A3, B3,C2, D2,D3	
10	Sun. 19/12/2021	Kirchhoff's Laws	In-class lecture	A1,A2, B2,C2, D1,D2, D3	
11	Sun. 26/12/2021	Power Transfer	In-class lecture	A1,A2, B1,B2, C1,D2, D3	
12	Sun. 2/1/2022	Electromagnetic Induction	In-class lecture	A1,A2, B1,B2, C1,D2, D3	
13	Sun. 9/1/2022	Revision and Experiments Makeup	In-class lecture		
14	Sun. 16/1/2022				
15	Sun. 23/1/2022				
16.	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:

Lab Manual of Physics 1501221

References:

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

Copy to:

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

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Subject Coordinator

Dr. Abeer Adaileh

Signature:

د. عبير عدايلة

Head of Curriculum Committee

Dr. Husam Miqadad

Signature:

حسام

Department Head

Dr. Husam Miqadad

Signature:

حسام

Faculty Dean

Dr. Hadeel Ail saed

Signature:



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رمز النموذج: UF 28 / 2

رقم القرار 24 / 233

تاريخ الاعتماد 2021/10/18