



Jordan University of Science and Technology
Faculty of Science & Arts
Physics Department

PHY106 General Physics (Laboratory)(2)

First Semester 2017-2018

Course Catalog

1 Credit Hours. This laboratory has 10 experiments that emphasize the experimental techniques and procedures in writing formal reports. These experiments reinforce and extend the work of the lectures of physics course Phys. 102. The experiments emphasize on general topics electricity and magnetism as shown in details in the table below.

Text Book

Title	General Physics Laboratory Manual II 106
Author(s)	Department of Physical Sciences
Edition	1st Edition
Short Name	1
Other Information	

Course References

Instructor

Name	Dr. Hasan Al-Khateeb
Office Location	PH3 L1
Office Hours	Sun : 12:30 - 13:30 Mon : 13:00 - 14:00 Tue : 12:30 - 13:30 Wed : 13:00 - 14:00 Wed : 14:00 - 15:30 Thu : 12:30 - 13:30
Email	hkateeb@just.edu.jo

Class Schedule & Room

Section 2:

Lecture Time: Thu : 12:30 - 14:30

Room: LAB2 PH3 L0

Prerequisites		
Line Number	Course Name	Prerequisite Type
921020	PHY102 General Physics (2)	Pre./Con.
921050	PHY105 General Physics (Laboratory)	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Ohm's Law	From 1
Week 2	Galvanometer	From 1
Week 3	Potentiometer	From 1
Week 4	Wheatstone Bridge for Resistors	From 1
Week 5	Wheatstone Bridge for Capacitors	From 1
Week 6	Impedance Matching for Maximum Power Transfer	From 1
Week 7	RC Circuits	From 1
Week 8	Measurement of Earth's Magnetic Field	From 1
Week 9	Permeability of air	From 1
Week 10	Supplementary Experiment	From 1
Week 11	Final Exam.	From 1

Mapping of Course Objectives to Program Student Outcomes ¹	Assessment method
Use physical measurement equipments	
Present the data in a logical manner	
Analyze the data and draw the conclusions	
Describe and calculate uncertainty of the measured values	

Relationship to Program Student Outcomes (Out of 100%)										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)

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