



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

PHY107 General Physics Laboratory (For Non-Physics Students)

Summer Semester 2019-2020

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. 101 & physics 102. The experiments emphasize on different topics in mechanics and electricity and magnetism as shown in details in the table below.

Text Book

Title	General Physics Laboratory (Phys. 107)
Author(s)	Department of Physical Sciences
Edition	1st Edition
Short Name	Ref. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	Physics for Scientists and Engineers	Serway and Jewett	9th Edition	

Instructor

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Class Schedule & Room
<p>Section 1: Lecture Time: Thu : 08:30 - 12:30 Room: LAB4 PH3 L0</p> <p>Section 2: Lecture Time: Thu : 08:30 - 12:30 Room: LAB4 PH3 L0</p> <p>Section 3: Lecture Time: Thu : 12:30 - 16:30 Room: LAB4 PH3 L0</p> <p>Section 4: Lecture Time: Thu : 12:30 - 16:30 Room: LAB3 PH3 L0</p> <p>Section 5: Lecture Time: Thu : 08:30 - 12:30 Room: LAB1 PH3 L0</p> <p>Section 6: Lecture Time: Thu : 12:30 - 16:30 Room: LAB1 PH3 L0</p>

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Measurements and Errors	From Ref. 1
Week 2	Projectile motion	From Ref. 1

Week 3	Newton's Second Law	From Ref. 1
Week 4	Rotational motion	From Ref. 1
Week 5	Conservation of energy	From Ref. 1
Week 6	Ohm's Law	From Ref. 1
Week 7	Potentiometer	From Ref. 1
Week 8	Galvanometer	From Ref. 1
Week 9	RC Circuits	From Ref. 1
Week 10	Wheatstone-Bridge	From Ref. 1
Week 11	Supplementary experiment	
Week 12	Final Lab Exam	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Strengthen the students understanding of the basic physical concepts, measurements, motion, energy, electricity and magnetism [21, 33, 14]	15%	
Develop the students' skills in collecting and analyzing the data and formulating meaningful conclusions based on this data [21, 33, 14]	30%	
Describe and calculate uncertainty of the measured values [21, 33, 14]	10%	
Enhance ability of students to communicate results and ideas through writing scientific reports and drawing figures [21, 33, 14]	30%	
Practice students skills at working cooperatively within a group to achieve solutions to given problems [21, 33, 14]	15%	

Relationship to Program Student Outcomes (Out of 100%)					
1	2	3	4	5	6
33.33		50	16.67		

Evaluation	
Assessment Tool	Weight
Reports	40%
Quizes	20%
Final exam	40%

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