COURSE OUTLINE

Course Number & Title	20147, Physics I Lab					
Semester	First Semester 2021-2022					
Credit Hours	zero					
Instructor	Khalid F. Kaddoumi, k.kaddoumi@psut.edu.jo					
Course Type	In lab. Experiments					
Required or Elective	Mandatory for all students					
Course Schedule	3 hours/week					
Course Assessment &	Lab reports		0%			
Grading Policy	Midterm practical Exam		20%			
	Final Practical Exam	4	10%			
Course Prerequisites	Physics I (20141)/Co-requisi	te				
Catalog Description	Co-requisite: 20141					
	Introduction to Errors and Graphs, Basic Measurements, Static Equilibrium,					
	The Laws of Motion, Simple Harmonic Motion, Moment of Inertia, Viscosity.					
Textbook and Related						
Course Materials:	• "Laboratory Manual for Experiments in Physics I", Prepared by the					
	instructor.					
	• PSUT E-Learning Website).				
Topics Covered:	• To give an idea about the errors propagation in mathematical operations and					
	to use the graphical method to obtain the desired results.					
	• To be familiar with different types of measuring tools					
	• The concept of static equilibrium and the resultant of different forces acting					
	on a body.					
	• Using Newton's second law to determine the acceleration due to gravity.					
	• The properties of a simple harmonic motion.					
	• Measuring the moment of inertia of different geometrical shape objects.					
Contribution to the	General Education: 20% Mathematics & Basic Sciences: 80%					
Professional	Mathematics & Basic Science	es: 80	1 %			
Component Expected Level of	Mathematics:	C	ood			
Proficiency for	Physics:					
Students Entering the	Physics: Good Technical writing: Not Applicable					
Course	Computer programming: Not Applicable					
Materials Available to	compared programming.			Dept.	Instr.	TA(s)
Students &	Course objectives and outcor	mes:	<i>✓</i>	✓ ×	✓	(~/
Department at End of						
Course	Lecture notes:		✓		✓	
	Samples solutions from students:			✓		
	Course Assessment by Students (CAS):			✓	✓	
	Course Assessment by Faculty (CAF):			✓	✓	
Will This Course Involve Computer Assignments? No						
Will This Course Have	Will This Course Have TA(s) When it is Offered? No					

Upon completion of this course, students will have had an opportunity to learn about the

following:

	Specific Course Outcomes	Student Outcomes
1.	Be able to validate physical theories in quantitative manner.	1
2.	Teaching the limitations inherent in the application of physical theories to real physical situations.	1
3.	The ability to work as a member of a team and agree upon exactly what needs to be done and who shall perform each task.	1
4.	Submit a lab report for each experiment performed, the recommended format should adhere closely.	1
5.	The ability to interpreting results and comparing it with the theoretical expectations.	1
6.	The ability to use different tools and measuring devices in a correct manner to perform the experiments.	1