UNIVERSITY OF PUERTO RICO AT ARECIBO PHYSICS/CHEMISTRY DEPARTMENT BACHELOR OF TECHNOLOGY IN INDUSTRIAL CHEMICAL PROCESSES

Course N°: FISI 3004	Title of Course: General Physics Laboratory II		
Credits: 1 Contact Hours: 3/weekly	Open to : Industrial Chemical Processes Technology students		
Pre- requisite:noneCo-requisite:FISI 3002	Textbook: Physics Laboratory Experiments Author: J.D. Wilson & C.A. Hernández Publisher : Brooks/Cole		
	Publication Year: 2010		

Supplemental Materials:

- Diccionario de Física, McGraw Hill, 1991.
- Encyclopedia of Physics, VCH Publishers, 1991.
- www.wolframalpha.com

Term: Second Semester

Course Coordinator: Prof. Ángel Acosta

Course Description: Laboratory experiences in waves, electric and magnetic fields, and electronics.

Course Objectives:

- Study the laws of physics.
- Apply the physical and mathematical principles that govern nature.
- Develop reasoning and analysis skills in the solution of problems involving physical principles.

Relation of Course to Program Objectives:

1	2	3	4
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1	2	3	4	5	6	7	8	9	10	11
x	X	X								

Relation of Course to Program Outcomes:

Evaluation/Grade Reporting: laboratory reports (50%), 2 partial exams (40%), laboratory notebook (10%)

Laboratory experiences	Teaching/Learning Strategies Time Distribution (hours)			
Hooke's Law	Team work (6)			
Stationary waves	Team work (3)			
Sound waves	Team work (3)			
Reflection and refraction	Team work (3)			
Electric field	Team work (3)			
Ohm's law	Team work (3)			
Series and parallel circuits	Team work (3)			
Kirchhoff rules	Team work (3)			
Oscilloscope	Team work (3)			
RLC circuits	Team work (3)			
Mirrors and lenses	Team work (3)			
Electron's charge	Team work (3)			
Exams	(6)			
Total	45			