



NATIONAL INSTITUTE OF PHYSICS

College of Science
University of the Philippines
Diliman, Quezon City 1101 Metro-Manila



Course	PHYSICS 71.1, 2 nd semester A.Y. 2018-2019	
Credit	1 unit	
Course Description	Elementary Physics Laboratory I	
Course Goals	<ul style="list-style-type: none"> • To develop basic skills in taking and reporting scientific observation • To value the role of direct observation to the development of theory and vice versa • To develop collaborative learning skills • To gain better understanding of the concepts of classical mechanics 	
Course Requirements	Prelab activities	10 %
	Worksheets	70 %
	Oral presentation	10 %
	Lab performance and quizzes	10 %
Important Dates	Deadline for dropping of subjects	11 Apr, Thu
	Deadline for filing LOA	29 Apr, Mon
	End of classes	14 May, Tue
	Submission of grades	31 May, Fri
Lab Instructor:	[REDACTED]	
Consultation Room:	A101 (Junior Faculty Room)	
Consultation Schedule:	TW: 8-12 PM, Th: 10-12 PM	
Email:	[REDACTED]	

COURSE POLICIES

A. General Guidelines

1. There are ten experiments, with each experiment to be completed in one class meeting only except for the Sound experiment. In case classes are suspended, the schedule of experiments shall be moved accordingly.
2. All experiments are performed by group. Each group consists of three to four members. Students are expected to read the manual for an experiment before coming to class. The instructor can demand the group to repeat all procedures if the experiment is not conducted properly. However, no extension will be granted if the experiment is not finished on time.
3. The manual corresponding to each experiment consists of the following parts: Prelab, Objectives, Introduction, Materials, Procedure, and Worksheet.
4. Each group must have a hard copy of the Worksheet part of the manual for the scheduled experiment. Soft copies of the manuals will be sent to students.
5. An absence is considered excused if it is due to (1) an illness, (2) death in the immediate family, or (3) official UP duty. In such cases, the student should present his/her excuse letter, duly signed by his/her College secretary or a medical certificate issued by the UP Health Service, to his/her instructor on the first lab meeting he/she is able to come back.
6. A student who missed an experiment due to a valid reason will be given a make-up experiment.

Grading System	
$92.00 \leq \text{Grade}(\%) \leq 100.00$	1.00
$88.00 \leq \text{Grade}(\%) < 92.00$	1.25
$84.00 \leq \text{Grade}(\%) < 88.00$	1.50
$80.00 \leq \text{Grade}(\%) < 84.00$	1.75
$76.00 \leq \text{Grade}(\%) < 80.00$	2.00
$72.00 \leq \text{Grade}(\%) < 76.00$	2.25
$68.00 \leq \text{Grade}(\%) < 72.00$	2.50
$64.00 \leq \text{Grade}(\%) < 68.00$	2.75
$60.00 \leq \text{Grade}(\%) < 64.00$	3.00
$50.00 \leq \text{Grade}(\%) < 60.00$	4.00
$0.00 \leq \text{Grade}(\%) < 50.00$	5.00

B. Laboratory Protocol

1. Materials for each experiment are borrowed from the laboratory aide in room F107. Each group must leave one members' ID and a list of all the members when borrowing materials.
2. Materials for each experiment must be handled with care at all times. Putting marks on the materials is strictly prohibited.
3. If a member of a group damaged or defaced any equipment, the entire group shall be liable for the corresponding repair, or in case of irreparable damage, shall replace the equipment. Failure to do so will be grounds for ineligibility to enroll in the next semester.
4. Cleanliness must be maintained in the designated group table.
5. All borrowed materials must be properly returned to the laboratory aide after use.
6. The use of electronic devices (e.g. cellphones, laptops) should be minimized.
7. Eating, drinking, smoking, and horse playing inside the laboratory are forbidden.

C. Prelab Guidelines

1. Prelabs are accomplished individually. Students may opt not print the Prelab part of the manual and write their answers instead on a piece of yellow paper.
2. Students must submit their prelab before the start of the corresponding experiment. Students who fail to do so will automatically get a grade of zero for the prelab.

D. Worksheet Guidelines

1. Worksheets are accomplished by group. A group must have at least one hard copy of the Worksheet part of the manual for the scheduled experiment.
2. Raw data and calculations are checked at the end of every meeting.
3. Two-thirds of the worksheet score will come from the data and calculations and the remaining one-third will come from the data analysis (graphs and/or answers to questions). The grades may be adjusted by the results of peer-evaluation.
4. Worksheets for the previous experiment will be collected at the start of the meeting for the next experiment. A group may not start a new experiment until the worksheet for the previous one is submitted. Worksheets submitted after the official class time will be considered late. Worksheets will receive a 50% deduction for every meeting late. A group must have a contingency plan in case its member who has the worksheet cannot come to class to submit it.
5. All prelabs and worksheets must be returned to the instructor on or before the last day of classes. Students who fail to do so will be given a grade of INC.

E. Grading Guidelines

1. If the student's total number of absences reaches twenty percent of the total number of class meetings (3 meetings), he/she will automatically be given a grade of 5.0.
2. If the student misses the deadline of dropping, he/she will be given a grade of 5.0.
3. A student who missed an experiment without a valid excuse will automatically be given a grade zero for the corresponding worksheet.
4. A grade of INC can be removed by completing the missed requirement within one academic year. A student must be enrolled during the semester he/she completes the missed requirement. The grade of INC will be converted to a numerical final grade upon re-calculation of the grade including the requirements completed.
5. The instructor will only give a grade of DRP upon a student's completion of the dropping module.
6. A student granted a leave of absence (LOA) would only be given a grade of either DRP or 5.0. A grade of 5.0 is given if the LOA is granted after **three** fourths of the semester has lapsed and the student's standing is failing; otherwise DRP is given.
7. The student must re-take the course when a grade of 4.0 is incurred; there is no removal exam.

F. Student Conduct and Discipline

1. Wear your IDs at all times inside the premises of NIP.
2. CCTV cameras are set up at different places inside and outside the NIP building that monitors and records any untoward incidents 24/7.
3. Any form of vandalism is strictly prohibited in the NIP building. A student who is found guilty shall immediately be subjected to disciplinary actions.
4. University rules apply for cheating. Any form of cheating in examinations or any act of dishonesty in relation to studies, such as plagiarism and fabrication of experimental data/results, shall be subject to disciplinary action.

H. Schedule of Activities

Meeting No.	Room F106	Room F108
1	Orientation	Orientation
2	MUD	MUD
3	Addition of Vectors	Measuring Devices
4	Measuring Devices	Free Fall
5	Postlab Activity 1	Projectile Motion
6	Free Fall	Postlab Activity 1
7	Projectile Motion	Addition of Vectors
8	Torque	Rotation
9	Rotation	Torque
10	Postlab Activity 2	Buoyancy
11	Sound 1	Postlab Activity 2
12	Sound 2	Physical Pendulum
13	Physical Pendulum	Sound 1
14	Buoyancy	Sound 2
15	Postlab Activity 3/Workshop	Postlab Activity 3/Workshop
16	Presentation	Presentation

Copy the text below on a one-fourth sheet of yellow pad paper, affix your signature below it, and submit it to your Instructor:

I, <write your name>, upon reading its entirety and understanding its contents, hereby agree to abide to and respect all the course policies stated in the Physics 71.1 Syllabus.