



Physics 72.1 Elementary Physics Laboratory II

1st Semester, A.Y. 2014-2015

Student's Name:
Lab Instructor:
Email:
Consultation Hours:

Credit: 1.0 unit
Class Schedule:
Section:
Room:

Prerequisite: Physics 71.1

Co-requisite: Physics 72

Course Description: An elementary physics laboratory that deals with electricity and magnetism, and elementary optics.

Course Goals: At the end of the course, the students should

- have gained better understanding of the concepts in electricity and magnetism, and elementary optics;
- be able to appreciate the process of manuscript writing in the pursuit of scientific knowledge; and
- have further developed collaborative learning skills.

Course Requirements:

Laboratory Worksheets – 60%

Technical Papers – 15%

Practical Exam – 15%

Prelabs – 5%

Laboratory Performance/Quizzes – 5%

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

Guidelines and Policies:

Experiments

1. This laboratory course consists of nine (9) experiments.
2. Each student must get a copy of the lab manual from State U Copy Center (Stall 19 in Shopping Center).
3. Experiments are done by group. Each group should consist of three (3) members.
4. The materials to be used for an experiment are to be written down on a piece of paper (per group). Submit this, together with the student's ID, to the laboratory aide (in F103).
5. Any student who has damaged or defaced any experimental equipment shall be liable for the corresponding repair or, in case of irreparable damage, shall be made to pay an amount equal to the cost of the equipment at the present time.
6. Observe proper attire, e.g. wear closed shoes, do not wear dangling jewelries, etc.

Prelabs

7. Students are required to accomplish nine (9) pre-laboratory assignments, each corresponding to an experiment.
8. A prelab must be accomplished before performing the experiment. A student without a prelab will not be allowed to perform the experiment.

Worksheets

9. Students are required to submit seven (7) worksheets, each corresponding to an experiment. Worksheets are attached at the end of each experiment module.
10. Experimental data will be checked and signed by the instructor at the end of every experiment.
11. Worksheets should be done individually.
12. Worksheets should be accomplished in ballpen.
13. Copying other persons' worksheets is forbidden (except, in case of groupmates, for the data gathered

during the experiment). Anyone caught violating this rule will be suspected of cheating and as such, will be subject to disciplinary action.

14. If a student misses an experiment, he/she can take a make-up experiment provided that his/her excuse is valid (See #25).
15. All worksheets should be returned to the instructor on the last meeting, i.e. on the day of the practical exam. Students who will not surrender all their worksheets will be given a grade of "INC".

Technical Papers

16. Students are required to submit two (2) technical papers, each corresponding to an experiment..
17. Technical papers are done by group.
18. Technical papers should be formatted according to a template that will be given on the Technical Paper Writing session.
19. A student who misses the experiment assigned for a technical report shall be assigned a different topic provided that his/her excuse is valid (See #25).

Submissions

20. Worksheets/technical papers should be submitted in class only.
21. Deadline for a worksheet/technical paper is a week after performing the corresponding experiment. Worksheets/technical papers submitted a week after the deadline are considered late and will be given a 40% score deduction. Worksheets/technical papers submitted beyond the late submission date will no longer be accepted.
22. A student who has not submitted at least five (5) technical papers and/or worksheets will automatically be given a grade of 5.0, provided the student has not dropped from the course.

Practical Exam

23. The practical exam is a circuit-type exam consisting of ~20 multiple choice-type questions, each with four (4) choices for the correct answer.
24. The practical exam is scheduled during regular class hours near the end of the semester.

Absences, Dropping, LOA, "4.0"

25. An absence is excused only if it is due to one of the following: illness, bereavement, or official UP duty. In such cases, a medical certificate, death certificate, or official endorsement must be submitted to the instructor as soon as possible.
26. If the student's total number of absences (excused or unexcused) reaches four (4), he/she will automatically be given a grade of "5.0", provided the student has not dropped the course.
27. A grade of DRP is given upon the initiation of the student, provided he/she informs his/her instructor before the deadline for dropping. The same rule applies to students who file a leave of absence (LOA). A student granted an LOA will only be given a grade of either "DRP" or "5.0". A grade of "5.0" is given if the LOA is granted after $\frac{3}{4}$ of the semester has elapsed and the student's class standing is failing; otherwise a grade of "DRP" is given.
28. A grade of "4.0" implies that the student should retake the course.

Lab Performance

29. Grade deductions or other penalties deemed appropriate by the instructor will be given to student(s) who will fail to comply with the following rules:
 - a. no eating, drinking and smoking inside the lab room.
 - b. mobile phones should be in silent mode.
 - c. maintain cleanliness and orderliness in the designated group table.
 - d. return all materials and equipments to the laboratory aide after use.

Important Dates:

Deadline for Dropping – November 6
Deadline for Filing LOA – November 19
Practical Exam – November 25–28
End of Classes – December 5