

LINEAR AND CONTROL SYSTEMS, LABORATORY

1st SY2013-14

Course: ELC 151.2 lab

Laboratory Schedule:

Consultation Hours: T 10:30 to 1:30 or W 10:30 to 1:30 or by appointment or via sms/email

Laboratory Instructor: Carlos M. Oppus (ckiana02@yahoo.com coppus@ateneo.edu 09204280161)

<http://ohm.ecce.admu.edu.ph/wiki/bin/view/Main/TotoOppus>

Lab Rules

- Each exercise is graded on a **50/100**-point basis. The score will be based on the lab performance and the quality of the written report.
- Absence from a particular lab period merits a zero for that exercise.
- In the performance of an experiment which requires a lab report, all necessary data/diagram/solution must be copied on a bond paper. This is to be signed by the teacher at the end of the lab period. This signed paper must be included in the submission of the lab report. A deduction of 5 points per day for late presentation will be enforced.
- Lab reports are due three days after the completion of the experiment. A lab report is null and void if submitted without a data sheet signed by the instructor. A deduction of 5 points per day for late reports will be enforced. (Note: In general, the Lab report is due three days after the scheduled lab, i.e. for Thursday lab, deadline is Tuesday 12:00 noon.) If the instructor is not around kindly submit the report to the pigeon hole of your instructor with the date stamped by the ECCE dept.
- Lab reports must be type-written or printed and must follow the lab report format.
- Cleanliness and order must be kept in the lab. Things to do before leaving the lab: store all equipment properly, clean your table of visible debris, arrange the chairs. You are responsible for your own work area.

✓ Solution(s)

✓ Schematic diagram

✓ Design Process and Discussion

You are expected to prepare the background theory for the experiment to be performed. Describe/discuss the design process.

✓ Conclusion and Recommendation

From the theoretical information, you should be able to interpret the result of the experiment.

Dates	Lab Activity	Due
Presentation		Report
	LDR Characteristics	
	HPLED Characteristics	
	Motor Characteristics	
	Characterization and Applications of a simple controller	
	Arduino Controller 1	
	Arduino Controller 2	
	Open vs Close Loop 1	
	Open vs Close Loop 2	
Project		

Lab Report Format

- You are expected to develop your technical writing skills. Follow IEEE paper format and include the following:
 - ✓ Name of group member/s, Date
 - ✓ Exercise #, Title and abstract stating the objective of exercise

For the objective, Free form; you should be able to narrow down the specific objectives

 - ✓ Block Diagram

Grading System

<i>A</i>	92-up	<i>B</i>	81-86+	<i>C</i>	70-75+
B+	87-91+	C+	76-80+	D	60-69+
F	59+ below				