

Syllabus

EECS 70LA Spring 2018
Code 18120, 18121, 18122
Network Analysis I LAB

Textbook: *Fundamentals of Electric Circuits (5th Edition)* Alexander & Sadiku, McGraw Hill, 2013.
Prerequisites: Physics 7D; EECS10, MAE10, EECS12, CSE41, or ICS31.
Co-requisites: EECS 70A.

What I want you to learn about (“Outcomes”):

1. Become familiar with the use and operation of test equipment such as power supplies, function generators, multimeters and oscilloscopes.
2. Learn the procedures for taking electrical circuit measurements of resistance, voltage, current, power, etc.
3. Design and conduct laboratory experiments to analyze the behavior of linear RC and RL circuits.
4. Describe and present steps/procedures involved in using test equipment and in analyzing data obtained from laboratory experiments.

Lab Sessions:
A1: W 2:00- 4:50p in ET 202
A2: M 7:00- 9:50p in ET 202
A3: Tu 1:00- 3:50p in ET 202

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Grading: The following is the breakdown of the lab grades.

Lab 1: 10/100 (Report 100%)
Lab 2: 10/100 (Question in class 20% + Report 80%)
Lab 3: 15/100 (Prelab 20% + Report 80%)
Lab 4: 10/100 (Prelab 20% + Report 80%)
Lab 5: 10/100 (Question in class 20% + Report 80%)
Lab 6: 10/100 (Report 100%)
Lab 7: 10/100 (Question in class 20% + Report 80%)
Lab 8: 15/100 (Report 100%)
Pass-Fail exam: 10/100

- Attendance is mandatory. A report for a particular experiment will be accepted only when the experiment is actually performed.
- You are going to perform an experiment in a group of three students. Each group submits one report. But the prelabs and questions will be done individually. Report is due one week after the experiment is performed. Report should be submitted to the dropbox on EEE. No late report will be accepted.