

ECE 230 Circuit Analysis Project Description

Introduction:

The purpose of the project is to provide students an opportunity to work together as a team at solving problems in a collaborative online environment. The project involves assigning rotating roles to team members for a variety of mini projects which will be coded within the MATLAB Live Editor environment. A project template was provided in Week 07 and has been posted on that section of the course website. Mini-project 1 provides sample code and test cases as a guide. It is expected that students have already gone through the MATLAB On-Ramp training and have looked through sample projects within the MATLAB Live Editor as requested during the first several weeks of the course.

Structure:

The mini projects have been described within the MATLAB template and will not be repeated here. A table of contents and project layout has been coded in as well for easy access to various sections of the code. Please do not edit this structure so that it will be easy to review the code when submitted.

Tasks:

For each mini project, the team will assign roles with the goal of rotating members as much as possible. The only guidelines are that you are to document as a team the important aspects of the course that you would like to have as a guide for future courses and your own technical library. Think of it as a cookbook or toolbox of how to quickly remember key aspects of the course along with code for calculations and evaluation of sample problems. I will provide test cases for all mini-projects by the end of week 09 which will need to be included in your code and a summary provided via a PDF presentation of results (you can use Word or PowerPoint to create a file and then print it as a PDF to submit – please review the PDF file prior to submitting so you know what it looks like – neatness and presentation of results matter!)

Due Date:

Thursday, April 29th submitted on the course website upload location by 11:59pm. The upload link is found in Week 14. Please upload your MATLAB code file and a PDF of your test results. Each filename MUST include your group number (for example: Group1.XXX)

Grading:

80% of the grade will be based on the code presentation, workability, and presentation of test cases. 20% of the grade will be based on self-evaluation of each team member within your group. In other words, each team member will grade each other team member based on contribution level to the project. A composite grade for each team member will be calculated based on the above.