

Inter American University of Puerto Rico
Bayamón Campus
School of Engineering
Electrical Engineering Department

ELEN 3302 — Electric Circuits II

- Professor: José Oscar Mur Miranda, jomur@bc.inter.edu
Office: G131, office hours will be held Tuesday at a time TBA
Lecture: Monday, 8:30am-9:50am, 10:00am-11:20am, G120
Laboratory: Wednesday, 8:30am-11:20am, G247
Text: James W. Nilsson & Susan A. Riedel, *Electric Circuits*, 6th Edition, Prentice Hall 2001
Webpage: A class webpage will contain the material of the class. The URL will be announced in class.
Problem sets: A new problem set will be posted on the website of the class every Wednesday and will be due in class next Wednesday. The final grade will be based heavily on problem sets. Collaboration is allowed, but not encouraged. The work submitted must be your own. PS16 is an optional review set. The lowest three problem set grades will be discarded.
Laboratories: Laboratories will be posted on the website of the class. Laboratories will be graded pass/fail. You must pass twelve laboratories to pass the laboratory component.
Grading: The final score will be based according to the following distribution:
- | | |
|--------------|-----|
| Problem sets | 60% |
| Quiz 1 | 10% |
| Quiz 2 | 10% |
| Final | 20% |
- Assignment of grades will be based on the final score and the professor's assessment of the effort and understanding of the material in a case-by-case basis.

Syllabus:

August	16	Monday				Introduction
	18	Wednesday		PS1 out		Diagnostic Quiz
	23	Monday				Linearity
						Time invariance
	25	Wednesday	Lab 1	PS2 out	PS1 in	
	30	Monday				Frequency domain
						Eigenfunctions
September	1	Wednesday	Lab 2	PS3 out	PS2 in	
	6	Monday				No class
	8	Wednesday	Lab 3			
	13	Monday				Laplace transform properties
						Laplace transform pairs
	15	Wednesday	Lab 4	PS4 out	PS3 in	

	20	Monday				System functions
						Poles & zeros
	22	Wednesday	Lab 5	PS5 out	PS4 in	
	27	Monday				Zero Input Response
						Zero State Response
	29	Wednesday	Lab 6	PS6 out	PS5 in	
October	4	Monday				Quiz 1
	6	Wednesday	Lab 7	PS7 out	PS6 in	
	11	Monday				Bode plots
	13	Wednesday	Lab 8	PS8 out	PS7 in	
	18	Monday				Impulse response
	20	Wednesday	Lab 9	PS9 out	PS8 in	
	25	Monday				Convolution
	27	Wednesday	Lab 10	PS10 out	PS9 in	
November	1	Monday				Quiz 2
	3	Wednesday	Lab 11	PS11 out	PS10 in	
	8	Monday				Fourier transform
	10	Wednesday	Lab 12	PS12 out	PS11 in	
	15	Monday				Filters
	17	Wednesday	Lab 13	PS13 out	PS12 in	
	22	Monday				Feedback
	24	Wednesday	Lab 14	PS14 out	PS13 in	
	29	Monday				Feedback applications
December	1	Wednesday		PS15 out	PS14 in	
	6	Monday				Review
	8	Wednesday		PS16 out	PS15 in	Review
	13-17		Final's Week			Final Exam