Learning Outcomes	Matlab 1 assingment - download primer and upload assignment	Homework Chapter 2 - 2: 53, 61, 71, 75	Matlab 2 - graphing functions using Matlab	Multism assignment 1 – structure of the report portion of the grade	Multisim virtual lab report 2 – utilizing software and laplace transforms to solve circuit problems	Test 2, question on solving differential equation	Homework from Chapter 6	Multisim virtual lab report 3 - bode plot	Test 3 question on time and frequency response of an RLC circuit
1. Demonstrate the proper use of MATLAB to perform data analysis and graphing to solve technical problems.			X			`			
2. Use Laplace Transforms to solve various RLC circuit problems.							X		
3. Identify the best circuit theory to apply to various RLC circuits to solve for voltage and current measurements, and utilize these theories to solve these circuit problems.							X		
4. Simulate a circuit with the use of Multisim to obtain a prior understanding of a circuit's behavior, and incorporate these results in a laboratory report.					X				
5. List the differences between time and frequency analysis of a circuit.									X
6. Theoretically and experimentally generate a Bode plot, as well as simulate these results with Multisim.								X	
7. Write an effective laboratory report according to acceptable criteria.				X					
8. Demonstrate solutions of differential equations using transform methods						X			
9. Download and upload files with Moodle, as well as utilize other aspects of this learning management application	X								
10. Calculate integration and differentiation of various waveforms using graphical methods.		X							
11. Demonstrate the relationship between various signals and their spectrum.									X