JEE2330 – Spring 2025
Lab #3 Values and Notes

Experimental Procedures:

Section 3.5.1 – AC Analysis of a RC Circuit

V_1 = 20 volts peak-to-peak

R_1 = 10 kΩ C_1 = 0.1 μF f_a = 200 Hz

R_2 = 1.5 kΩ C_2 = 0.02 μF f_b = 2 kHz

Section 3.5.2 – AC Analysis of a RLC Circuit

V_2 = 20 volts peak-to-peak

R_3 = 2.7 kΩ C_3 = 0.1 μF f_c = 200 Hz

R_4 = 10 kΩ L_1 = 100 mH f_d = 2 kHz

Section 3.5.3 – RC Low-Pass Filter

V_3 = 20 volts peak-to-peak

R_5 = 10 kΩ C_4 = 0.02 μF

Section 3.5.4 – RC High-Pass Filter

V_4 = 20 volts peak-to-peak

R_6 = 10 kΩ C_5 = 0.02 μF

Report:

Design Problem – Use R_L = 24 kΩ.

Report Grading:

Data Sheets:	10 points	
Section 3.6.1:	24 points	3.6.1.1 – 3.6.1.2 (8 points each), 3.6.1.3 – 3.6.1.4 (4 points each)
Section 3.6.2:	16 points	3.6.2.1 (8 points), 3.6.2.2 – 3.6.2.3 (4 points each)
Section 3.6.3:	20 points	3.6.3.1 – 3.6.3.2 (8 points each), 3.6.3.3 (4 points)
Section 3.6.4:	20 points	3.6.4.1 – 3.6.4.2 (8 points each), 3.6.4.3 (4 points)
Section 3.6.5:	10 points	3.6.5.1 (4 points), 3.6.5.2 (3 points), 3.6.5.3 (3 points)