ENSC 220 Fall 2025 Lab 1

Due: Sunday, September 28, 2025

Gro	oup members:				
1.	Name:				
	Student No.				
2.	Name:				
	Student No.				
3.	Name:				
	Student No.				

Each Lab group submits one completed worksheet based on the instructions given in Lab 1.

Lab 1: Verification of KVL and KCL Worksheet

DMM accuracy					
Voltage	Current	Resistance			
3 3 3					

Resistor values					
	Nominal	Measured			
R1		±			
R2		±			
R3		±			

		KVL	
Expected (based on measured Measured resistance and V _{in})			
V _{in} (nominal)		±	
V_{R1}		±	
V_{R2}		±	

		KCL			
	Expected (based on measured resistance and V _{in})	Measured			
I_{R1}			±		
I_{R2}			±		
I_{R3}			±		

Show how equipment accuracy and measurement errors propagate through the expressions and affect the expected value of V_{R1} . Explain how the measurement process affects the resistances, voltages, and currents that you are measuring (one or two sentences and/or a diagram).

Discussion: