## CE3101 Lab 6: CMOS Gates

## Objectives

• Explore CMOS Gates

				student	
Prelab			c	heck off	
٠	Cheo	kou	it an Analog Discovery 2 kit from the Tech Center		
•	Cheo	kοι	it needed components from the Tech Center		
Assign	ment				
Ра	art 1:	: CMOS Inverter			
	<ul> <li>a) Simulation: Simulate the Part1 circuit in MultiSim. First determine th point, then measure the gate delay(s) of the middle inverter. Note the</li> </ul>			ing	
			resisters are present to help the simulation converge.		
		<ul> <li>Implementation: Build the circuit from part a (without the resistors) and meas the middle inverter gate delays(s) using the simulated switching point as your</li> </ul>			
			reference.		
Pa	art 2:	CMOS Integrated Circuit			
		a)	Implementation: Using the schematics for Part2, measure the gate delays an	d	
			rise/fall times for the second inverter for each part.		
Check	Off				
•	<ul> <li>Demo and document part 1</li> </ul>				
•	Dem	o ar	nd document part 2	50%	

Demo (in-person or via Teams chat) and Report (in the box) due by 4:00 pm Wednesday of the week following the lab.