

Computer Skills & Computing for BME II Dr. Basim Al-Qargholi



Lecture 8: Introduction to Simulink

1. Set the value of the time stop (0.002)

APPS	SCOPE				
✓ Stop Norr initial for the second se	Time 0.002 mal 🕶	Step Back 🗸	► Run	Step Forward	Stop
	SIMULATE				

- 2. Press RUN to establish the simulation.
- 3. To see the simulated results, press double-click on the Scope block.



4. To measure the current, we need to connect the "Current Measurement Block" to the circuit in series with the resistor R2 and set a new port on the Scope



There is no current !!! True? In truth, the amount of the current is very small to be shown in this scale.



5. In order to evaluate the results and see the current and voltage together, we can amplify the current value by adding a Gain block.



The results will be as shown below:



Example2:

Replace the resistor R_2 with a capacitor (0.1µF) and repeat the steps of example 1.



The results will be as shown below:



We may compare the resistive, and capacitive load simulated results as shown below: There is a no phase shift 0° in the case of a resistor and 90° phase shift in the case of a capacitor.



Resistive load

Capacitive load