

**ECET 337**  
**DC Motor Model Homework**

1. Access the Input Data Excel file in this homework's folder on this Brightspace HW module.
  - a. Plot the Static test (RPM versus V).
  - b. Add the linear Trend Line and have the equation printed on the graph. Include this plot in your submission.
  - c. Enter the gain for the motor below. Be sure to get the units (RPM/V) right.

Gain = m = \_\_\_\_\_ RPM / V

- d. Plot the Step test (RPM versus seconds)
  - e. Identify  $\tau$  on the printed data, and write it below.

$\tau$  = \_\_\_\_\_