**IST 3050**

# Problem Solving and Decision Making

**Case Assignment 1**

Fall 2023 Semester Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Due Date: September 17th, 2023 Student ID #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work on the following problems using Excel for descriptive statistics. Use the attached excel file “***PerformanceLawnEquipmentDatabase***” containing the dataset required. Show all steps in Excel where required. Also make sure your solution file is uploaded into blackboard in Excel format. Please note that this case assignment 1 accounts for 10% of your total course grade.

Good luck!

Elizabeth Burke has received several questions from other PLE managers regarding quality, customer satisfaction, and operational performance. She would like to summarize some data from the ***Performance Lawn Equipment Data-base*** using statistical tools and analysis:

1. Frequency distribution and histograms for the data in ***Customer Survey*** worksheet.
2. Descriptive statistical measures for engine production time in worksheet ***Engines***.
3. A frequency distribution and histogram for blade weight samples in the worksheet ***Blade Weight***.

Write a brief report that clearly shows these results and explains the key insights.