ENGR 1181 | Application 2: Analyze data using Excel | Team Assignment

Assignment

Introduction

Use Excel to solve the problem described below. Work with your team to complete this assignment and turn in one completed Excel workbook as a team.

To successfully complete this assignment, do research and make as many assumptions as are necessary to solve the problem. Cite your outside sources. Because of the many assumptions that are necessary, there is no one correct answer to this problem. Clearly record and document your process (including research and assumptions). At the end evaluate your final answer to ensure it is reasonable.

The Problem

You are taking the role of an engineering educator at Columbus State Community College. Each section in your ENGR 1181 class take the same 3 exams. Using Excel, discover any trends in exam grades. For each section, determine the Mean, Median, and Standard Deviation for each exam. Create appropriate graphs (2D column, Box and Whisker, Scatter XY, etc.) to show trends.

On the sheet labeled "Reflection questions", consider 3 different methods for curving exams. Compare and contrast those 3 different methods for curving exams and select the method which best meets the stated goal "Treat all students equally and equitably". After applying the curve, determine the adjusted Mean, Median, and Mode. You are encouraged to consult with your instructor as you work this problem.

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