Management Statistical Analysis (2020 Fall)

Description

This course is designed to help students learn basic statistical methodology and analytical skills. After learning basic theories to understand each statistical methodology, a variety of managerial situations and questions will be presented. Upon completion of the course, students will understand how to analyze data effectively and efficiently, how to draw appropriate conclusions from data analysis.

Software

We will use R as the basic modelling tool. For those who have never learned R before, I will provide R tutorial videos through KLMS online classroom. After enrolling in this course, you can watch them, so it is recommended that you watch the videos before the class begins.

Instructor

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Topics

(Content may change depending on the progress of the class.)

- Descriptive Statistics
  - Graphical Descriptive Statistics
  - Numerical Descriptive Statistics
- Random Variables
- Probability Distributions
  - Discrete Probability Distributions
  - Continuous Probability Distributions
- Random Sample and Sampling Distribution
- Statistical Inference
  - Estimation
  - Hypothesis Testing
- Linear Regression
- ANOVA
- Chi-squared test