King Saud University (RIYADH)
College of business administration
Department of Quantitative Analysis
Business Statistics (QUA 207)

Batch : Semester 2 (1437/1438h) Credit hours : 3 Number of Sessions : 42
Section: 28644 / 26427 / 28625
Course Facilitator: Dr .Manahil Kamal Altib
Office : Building 3 2nd Floor, Office No. 118 E-mail: Maltib@ksu.edu.sa
Lecture: Sunday, Tuesday, Thursday: Sec (28644) 10 – 11 / Sec (26427) 11-12
Monday Sec (28625) 8 - 11
Office Hours : Sunday, Tuesday, Thursday (9-10), Tuesday & Thursday (12-1),

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Course Objectives:

- **Explain the concepts of Probability Distributions and Sampling Distributions.**
- **Explain the concepts of Estimation and Hypothesis Testing.**
- **lustrate applications of Confidence Intervals and Hypothesis Testing for Business problems.**
- **Analyze Business and Economic data for decision making.**
- **Explain the consequences to the Management based on the data analysis.**

Content of the Course and Session Plan

Session	Content
Sessions 1-4	**Review of the concepts of probability theory and probability distributions. Review of the Normal distribution and its characteristics. (Chapter 7)**
Sessions 5-12	**Sampling Distribution of the Sample Mean where the underlying distribution is Normal.** **Central Limit Theorem. (Chapter 8)**
Sessions 13-21	**Estimation (Point Estimation and Interval Estimation).** **Construction of Confidence Intervals for different population Parameters in case of Normal distribution. (Chapter 9)**
	First Midterm (25 points) Wednesday (22/7/1438 - 19/4/2017) (3:00-4:30 PM)
Sessions 22-29	**Hypotheses Testing about important population Parameters in case of Normal distribution - One Sample Tests of Hypothesis (Population Mean, Population Proportion). (Chapter 10)**
Sessions 30-35	**Hypotheses Testing about important population Parameters in case of Normal distribution - Two Sample Tests of Hypothesis (The difference between two Population Means , Population Variance, Ratio of tow Populations Variances, and the difference between two Population Proportions). (Chapter 11)**
	Second Midterm (25 points) Monday (19/8/1438 - 15/5/2017) (3:00-4:30 PM)
Sessions 36-40	**F-Distribution. Analysis of Variance (Chapter 12)**
Sessions 41-42	**Chi Square (Chapter 17)**
	Applications and Participation (10 points)
	Final Exam (40 points)

Text Book Recommended

1. Lind, Marchal and Wathen, **Statistical Techniques in Business and Economics**, McGraw Hill International, Fourteenth Edition.