

COLLEGE OF BUSINESS ADMINISTRATION  
KING SAUD UNIVERSITY, RIYADH  
BUSINESS STATISTICS (QUA 207)

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**BATCH** : 2017-18 / Semester 3  
**CREDIT HOURS** : 3  
**NUMBER OF SESSIONS** : 42  
**COURSE FACILITATOR** : Prof. Mahmoud M. Elsherbiny  
**OFFICE** : 246  
**LECTURE** : Monday and Wednesday 9:00 to 11:50 AM, Section No. 282  
: Monday and Wednesday 1:00 to 3:50 PM, Section No. 284  
**OFFICE HOURS** : **Sunday & Tuesday 10.00 AM to 12.00 Noon and 1.00 to 3.00 PM.**

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**Content of the Course and Session Plan:**

Chapter	Title	Required Topic	Number of lectures
7	Sampling distributions	Concept of sampling distribution. Sampling distribution of the mean. Sampling distribution of the proportion.	1
8	Confidence Interval of Estimation.	Confidence Interval for the mean ( $\sigma$ Known). Confidence Interval for the mean ( $\sigma$ Unknown). Confidence Interval for the proportion. Determining Sample Size.	2
9	Fundamentals of Hypothesis Testing: One-Sample Tests	Fundamentals of Hypothesis-Testing Methodology. $t$ Test of Hypothesis for the mean ( $\sigma$ Unknown). One-Tail Tests. Z Test of Hypothesis for the proportion.	2
10	Two-Sample Tests and One-Way ANOVA	Comparing the Means of Two Independent Populations. Comparing the Means of Two Related Populations Paired $t$ Test. Comparing the Proportions of Two Independent Populations. F Test for the Ratio of Two Variances. One-Way ANOVA.	4
11	Chi-Square Tests	Chi-Square Test for the Difference Between Two Proportions. Chi-Square Test for Differences Among More Than Two Proportions. Chi—Square Test of Independence.	1
12	Simple Linear Regression	Types of Regression Models. Determining the Simple Linear Equation. Measures of Variation. Assumption of Regression. Residual Analysis. Measuring Autocorrelation: The Durbin-Watson Statistics. Inferences About the Slope and Correlation Coefficient. Estimation of Mean Values and Prediction of Individual Values.	4

**Text Book Recommended:**

- David M. Levine, Kathryn A. Szabat, David F. Stephan: Business Statistics: A First Course, 7<sup>th</sup> Global Edition, Pearson.

**Course Assessment:**

Midterm Exam 1	25 points	7:30 PM – 9:30 PM, Monday 16/7/2018
Midterm Exam 2	25 points	7:30 PM – 9:30 PM, Wednesday 1/8/2018
Assignment and attendance	10 points	
Final Exam	40 points	
<b>Total</b>	<b>100 points</b>	