



جامعة الزيتونة الأردنية  
Al-Zaytoonah University of Jordan  
كلية الأعمال  
Faculty of Business

"الريادة والأبداع في الأعمال"  
"Entrepreneurship and Innovation"

"عراقة وجودة"  
"Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Banking and Finance Department	QF05/0408-3.0E
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Faculty	Faculty of Business	Department	Finance and banking
Course number	0503147	Course title	Statistics For Business
Number of credit hours	3	Pre-requisite/co-requisite	Mathematics for Business

### Brief course description

Develops fundamental knowledge and skills for applying statistics to business decision making. Part I topics include descriptive statistics, probability and sampling distribution. Part II topics include hypothesis testing, simple and multiple regression and experimental design.

	Course goals and learning outcomes
<b>Goal 1</b>	<b>1. Learn the basics of Statistics</b>
Learning outcomes	1.1 the students should know the meaning of business Statistics and its multiple uses in practical lives
<b>Goal 2</b>	<b>2– Explaining Sampling techniques and Finding sample size.</b>
Learning outcomes	2.1 The students able to distinguish between different types of samples. 2.2 the student know how to determine the sample size.
<b>Goal 3</b>	<b>3– Describing data using numerical measures</b>
Learning outcomes	3.1 the students understand the standards of central tendency. 3.2 the students understand the standards of dispersion
<b>Goal 4</b>	<b>4– Studying correlation coefficients &amp; their uses.</b>
Learning outcomes	4.1 the students should know the different types of correlation coefficients. 4.2 The students able to use correlation coefficients.
<b>Goal 5</b>	<b>5– Studying regression analysis &amp; its use in time series.</b>
Learning outcomes	5.1 the students have knowledge of regression equation and how it is estimated 5.2 the students should be able to use regression analysis to find the trend equation
<b>Goal 6</b>	<b>6– Studying the probability</b>
Learning outcomes	6.1 the students should be able to use the principles of probability and some potential distributions. 6.2 The student recognizes how to do hypotheses tests
<b>Goal 7</b>	<b>Studying index numbers</b>



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Learning outcomes	7.1 the students have skill in the analysis of the indices 7.2 the students should be able to use the indices in economic phenomena.
<b>Goal 8</b>	<b>Studying time series and uses and its use in Economical phenomena</b>
Learning outcomes	.8.1 Students know how to use time series in economic phenomena
<b>Textbook</b>	1–Groebner D.F., Shannon, P.W. etal (2010) Business statistics: A decision Making approach. 7 <sup>th</sup> Edt. Pearson
<b>Supplementary references</b>	1–Weiers, R.M, (2011). Introduction to Business Statistics. 7 th. Edt. 2– Anderson, D.R., Sweeny, D.J. and Williams, T.A. (2012) Statistics for Business and Economics.

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1	–Statistical concepts	71–58	(1) goal
	1	–Methods of research		
	1	–Sampling techniques		
02	1	–Sample size	86–72	2) goal (4 +
	1	–Frequency distribution table		
	1			
03	1	Charts for Frequency distributions (curve, polygon,	99–87	(1) goal
	1	–histogram,		
	1	Pie–chart, Bar chart, ogive, scatter diagram)		
04	1	–Central tendency measures for ungrouped &	133–102	2) goal (4 +
	1	grouped data (Mean, geometric mean, midrange,		
	1	Median, Mode, Quartiles, Percentiles)		
05	1	–Variation measures:	155–134	(3) goal
	1	range, variance, standard deviation, Interquartile		
	1			



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		(range, Weighted mean, cv.		
06	1 1 1	Variation measures	188-169	2) goal (4 +
07	1 1 1	-Simple linear correlation coefficients -Pearson -Spearman	211-191	(3) goal
08	1 1 1	- regression analysis	243-214	3) goal (4 +
09	1 1 1	-Time series analysis	71-58	(4) goal
10	1 1 1	-Index numbers -Simple, Aggregate, Weighted		
11	1 1 1	-Probability -Rules of Probability		
12	1 1 1	-Bays Theorem		
13	1 1 1	Probability distributions: -Discrete & distributions -Mean & standard deviation for discrete distribution - Binomial distribution		
14	1 1 1	-Continuous distribution - Normal distribution		
15	1 1 1	Introduction to hypothesis testing: -Single population mean -Single population proportion		
16	1 1 1	Introduction to hypothesis testing: - Two population mean -Two population proportion		



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<b>Theoretical course evaluation methods and weight</b>	Participation = 10% First exam 20% Second exam 20% Final exam 50%	<b>Practical (clinical) course evaluation methods</b>	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher		Office Number	
Phone number (extension)		Email	<a href="mailto:_____@zug.edu.jo">_____@zug.edu.jo</a>
Office hours			