



Course Specifications (Postgraduate Degree)

Course Title:	Business Statistics
Course Code:	STAT 511
Program:	Master of Business Administration - MBA
Department:	
College:	College of Business Administration - COB
Institution:	Dar Al Uloom University

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A. Course Identification

1. Credit hours: 3 Hours
2. Course type <input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
3. Level/year at which this course is offered: Level 1 / Year 1
4. Pre-requisites for this course (if any): Not Applicable
5. Co-requisites for this course (if any): Not Applicable

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	100%
2	Blended	Not Applicable	Not Applicable
3	E-learning		
4	Distance learning		
5	Other		

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
1	Lecture	45
2	Laboratory/Studio	Not Applicable
3	Seminars	
4	Others (specify) /	
Total		45

B. Course Objectives and Learning Outcomes

1. Course Description

This course designed to focus on inferential statistics. Topics include review of some probability distribution, central limit theorem, sampling distribution, point and interval estimation about mean, proportion and variance for one and two populations. The course also covers hypothesis testing using Z-test, t-test, Chi-square test and F-test about mean, proportion and variance for one and two populations. Also, it covers Chi-square tests for goodness of fit, independence test. Finally, simple linear correlation and linear regression equation with their applications.

2. Course Main Objective

- Provide basic knowledge about inferential statistics for the purpose of making effective business decisions in face of random parameters.
- Demonstrate the methods for sampling distributions of the mean, proportion and variance.
- Provide basic knowledge about inferential statistics for the purpose of making effective business decisions.
- Introduce point and interval estimation about the mean, proportion and variance of one population
- Introduce hypothesis testing about the mean, proportion and variance of one population

- *Extended the point and interval estimation for the difference of the means, proportions and variances' ratio of two population*
- *Extended the hypothesis testing for the difference of means, proportions and variances' ratio of two population*
- *Introduce students to test Chi-square tests for goodness of fit and independence populations.*
- *Make the students well versed in using linear correlation and regression models to describe the relation between dependent and independent variable.*

3. Course Learning Outcomes

Course Learning Outcomes (CLOs)		Aligned PLOs*
1	Knowledge and understanding	
1.1	<i>Recognize the major techniques of Sampling, estimating and hypothesis tests</i>	PLOK.2
1.2	<i>Recognize the major techniques of Correlation, regression, Goodness of Fit and Independence tests.</i>	PLOK.4
2	Skills:	
2.1	<i>Analyze statistical information about populations in the context of real-world settings.</i>	PLOS.2
2.2	<i>Construct and interpret the results of Sampling, estimating, hypothesis, Goodness of Fit, Independence tests, correlation and regression models.</i>	PLOS.5
2.3	<i>Demonstrate information technology skills in communication and numerical excellence in solving statistical problems and in use of financial data sources.</i>	PLOS.6
3	Values:	
3.1	<i>Illustrate team skills and information technology skills in communication and in using statistical applications in SPSS to work in groups for case study and projects.</i>	PLOV.3

* Program Learning Outcomes

B. Course Content

No	List of Topics	Contact Hours
1	<i>Sampling Distribution and Central Limit Theorem.</i>	5
2	<i>Point estimation and Confidence Intervals for mean, proportion, and variance.</i>	7
3	<i>Hypothesis testing about mean , proportion and variance</i>	7
4	<i>Point and Interval estimation of the difference of means, proportions, and variances' ratio for two populations.</i>	7
5	<i>Hypothesis testing about the difference of means , proportions and variances' ratio for two populations.</i>	7
6	<i>Chi-Square tests for Goodness-of-Fit and Independence.</i>	6
7	<i>Linear correlation and linear regression equation with their applications.</i>	6
Total		45

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding		
1.1	Recognize the major techniques of Sampling, estimating and hypothesis tests	<ul style="list-style-type: none"> Lectures In-class Discussions Tutorials Use of textbooks and reference material 	<ul style="list-style-type: none"> Oral Presentations Oral Examinations Quizzes Problem-Solving Exercises Written Examinations
1.2	Recognize the major techniques of Correlation, regression, Goodness of Fit and Independence tests.		
2.0	Skills		
2.1	Analyze statistical information about populations in the context of real-world settings.	<ul style="list-style-type: none"> Case-Study Learning Seminars Use of Self-Study and e-Learning Material 	<ul style="list-style-type: none"> Oral Presentations Oral Examinations Problem-Solving Exercises Written Examinations
2.2	Construct and interpret the results of Sampling, estimating, hypothesis, Goodness of Fit, Independence tests, correlation and regression models.		
2.3	Demonstrate information technology skills in communication and numerical excellence in solving statistical problems and in use of financial data sources.		
3.0	Values		
3.1	Illustrate team skills and information technology skills in communication and in using statistical applications in SPSS to work in groups for case study and projects.	<ul style="list-style-type: none"> Case-Study Learning Seminars Use of Self-Study and e-Learning Material 	<ul style="list-style-type: none"> Practical Reports Written Examinations Project Oral presentation

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	5 and 12	10%
2	Project / Presentations / Case study	10 / Continuous	20%
3	Midterm Exam	7	30%
4	Final Exam	15	40%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

1. Eight Office hours weekly can be booked through the students' SIS account.
2. Online discussion through the LMS forums and instant messaging.
3. Instructor email available in the course syllabus.
4. Occasional mobile calls or SMS for urgent messages.
5. Online discussion, instant messaging and calls through the Microsoft Teams.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none">• مقدمة في الإحصاء: مبادئ وتحليل باستخدام SPSS (2017)، أ.د. محمد صبحي أبو صالح، أ.د. عدنان محمد عوض، دار المسيرة للنشر والتوزيع والطباعة.
Essential Reference Materials	<ul style="list-style-type: none">• <i>Statistics for Business and Economics - 5th edition</i> David Anderson; Dennis Sweeney; Thomas Williams; James Freeman; Eddie Shoosmith www.cengage.com• Research paper from Journals, Articles from Magazines will be provided.
Electronic Materials	Study materials are available through online resources available from LMS.
Other Learning Materials	Microsoft Excel and SPSS

2. Educational and research Facilities and Equipment Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom and Laboratories.
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, smart boards and software.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Internet access point.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
End of semester Course Evaluation.	Students	Indirect
Effectiveness of teaching and assessment.	Peer reviewer	Indirect
Course learning outcomes assessment.	Faculty members	Direct
Quality of learning resources	Students Faculty members	Indirect

Evaluation Areas/Issues (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	COB Postgraduate Studies
Reference No.	MOM 1/2020-2021
Date	6/09/2020

