T-104
2022

Course Specification
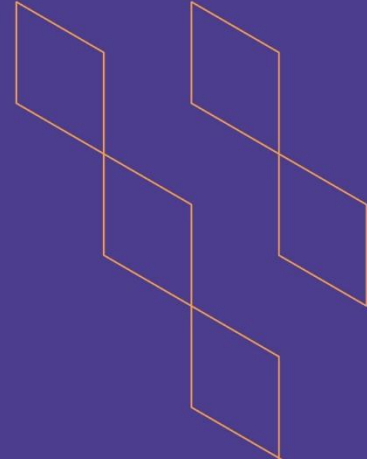
Course Title: **Statistics for Business I**
Course Code: STAT 211
Program: All Programs of the College of Business and Tourism
Department: **General Studies**
College: Deanship of Educational Services
Institution: University of Prince Mugrin (UPM)
Version: 3
Last Revision Date: 13/6/2023

Table of Contents:

A. General information about the course:

Course Identification	
1. Credit hours:	3 credits

2. Course type

a.	University ☐	College ☒	Department☐	Track☐	Others☐
b.	Required ☒	Elective☐			

3. Level/year at which this course is offered:

Level 3, Year 2

4. Course general Description

This course covers Basics of Probability and statistics for business students. It focuses on the collection, presentation, analysis, and interpretation of business-related quantitative data.

5. Pre-requirements for this course (if any):

Math 111

6. Co- requirements for this course (if any):

None

7. Course Main Objective(s)

• How to identify the various statistical terms.
• How to extract data using different sampling methods
• How to organize and present the Statistical data with the help of graphs and tables.
• How to apply different probability distribution models to different business applications.
• How to construct the confidence interval for the Population mean and Population Proportion using single and multiple samples.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	60	100%
2.	E-learning		
3.	Hybrid • Traditional classroom • E-learning		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	7
3.	Field	
4.	Tutorial	8
5.	Others (specify)	
	Total	60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with ACCT / FIN program	Teaching Strategies	Assessment Methods
1.0	By the end of this course, students will be able to…………… Knowledge and understanding			
1.1	Recognize various statistical terms	ACCT PLO K2 FIN PLO K3	• Highlight keywords. • List • Memory activities • Reading materials • Watching presentations and videos	• Fill in the blanks. • Match • Multiple choice • Numerical problems • True and false questions
1.2	Define the measures of central tendency and measures of variation.	ACCT PLO K2 FIN PLO K3	• Highlight keywords. • List • Memory activities • Reading materials • Watching presentations and videos	• Fill in the blanks. • Match • Multiple choice • Numerical problems • True and false questions
1.3	Describe statistical graphs and charts to present data.	ACCT PLO K2 FIN PLO K3	• Attending focus groups. • Listen as an audience to a presentation. • Read articles/papers/ textbooks. • Watch a video.	• Feedback forms • Fill-in-the-blanks • Knowledge survey • List • Match • Memory tests • Test activities (recall and verbalize reactions) • Write a summary on key points of presentation.
…				
2.0	Skills			
2.1			• Opinionated writing piece	• Analysis paper • Case study • Evaluation criteria

Code	Course Learning Outcomes	Code of CLOs aligned with ACCT / FIN program	Teaching Strategies	Assessment Methods
	Analyze data using different sampling methods.		• Reflection exercises (reflection paper) • Self-report	• Critique hypothesis, procedures, etc. • One-minute paper •
2.2	Calculate probabilities using sample space, different rules of probability and Baye's rule.		• Compare and contrast (with charts, tables, and Venn diagrams) • Concept map • Pros and cons list • Mind map	• Discussions • Presentation • Provide alternative solutions. • Report
2.3	Apply discrete and continuous probability distribution models on real life business applications.		Calculate • Case studies • Concept map • Creating examples • Demonstrations • Flipped classroom. • Gallery walk. • Group work • Lab experiments • Map • Problem-solving tasks	E-portfolio • Lab reports • One-minute paper • Presentation • Problem-solving tasks. • Short answers

Code	Course Learning Outcomes	Code of CLOs aligned with ACCT / FIN program	Teaching Strategies	Assessment Methods
2.4	Formulate confidence interval for the mean and the proportion in real life business applications.	ACCT PLO S4 FIN PLO S2	• Analyze and contrast (with charts, tables, and Venn diagrams) • Concept map (Report formal and informal experiences and identify skills)	• Develop realistic aspirations. • Prioritize time to meet goals. • Focus groups. • Questionnaires • Ability to solve new problems
...				
3.0	**Values, autonomy, and responsibility**			
3.1	Demonstrate, Teamwork Strategies in Collaborative Activities	ACCT PLO V3 FIN PLO V2	• Opinionated writing piece • Reflection exercises (reflection paper) • Self-report	• Attendance • Neatness and carefulness (with minimal errors) of submitted work. • Meet deadlines. • Proposals of new plans • Questionnaire • Rating scale • Reflection piece • Report on extracurricular activities • Ungraded paper
...				

C. Course Content

No	List of Topics	Contact Hours
1.	**Introduction**	**4 (1 Week)**
2.	**Organizing and Visualizing Data**	**8 (2 Weeks)**
3.	**Numerical Descriptive Measures**	**8 (2 Weeks)**
4.	**Basic Probability**	**8 (2 Weeks)**

5.	Discrete Probability Distributions	8 (2 Weeks)
6.	The Normal Distribution and Other Continuous Distributions	8 (2 Weeks)
7.	Sampling and Sampling Distributions	8 (2 Weeks)
8.	Confidence Interval Estimation	8 (2 Weeks)
Total		**60 (15 Weeks)**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework / Assignments	Every week	10%
2.	Class Participations	Continuous	10%
3.	Quizzes	Every 2nd week	10%
4.	Mid Term Examination	8th Week	25%
5.	Project	14th Week	10%
6.	Final Examination	16th Week	35%
...	Total		100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Basic business Statistics: concepts and applications, 12th edition, by Berenson, M.L., Levine D.M., and Krehbiel T.C.
Supportive References	
Electronic Materials	PowerPoint slides for each topic along with practice sheet.
Other Learning Materials	https://stattrek.com, https://www.statistics.com

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room (max 30 students)
Technology equipment (Projector, smart board, software)	Smart Board
Other equipment (Depending on the nature of the specialty)	Slides Hand out Notes

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect: Survey (electronically)
Effectiveness of student's assessment	Instructors, Head of department	Direct: exams Indirect: survey
Quality of learning resources	Instructors, Head of department	Indirect: survey
The extent to which CLOs have been achieved	Coordinator, Peer, Head of department	Direct: exams Indirect: survey
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	GS COUNCIL MEETING
REFERENCE NO.	AY-2022-2023-NO.4
DATE	12/04/2023