





جامعة كل العرب

- A6) List the counting techniques and its application
- A7) Study discrete probability distributions such as binomial distribution, Poisson distribution
- A8) Study continuous distribution such as normal distribution, student's -t –distribution, chi-square distribution.
- A9) Understand central limit theorem

**B. Cognitive and Intellectual Skills:**

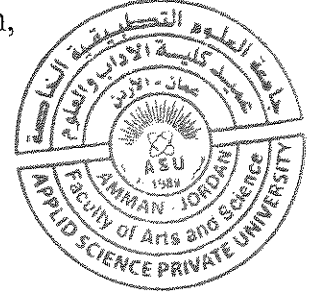
- B1) Describe data by tables and graphs
- B2) Analyze and summarize bivariate data
- B3) Compare between discrete and continuous distribution
- B4) Analyze data and draw inferences from large samples

**C) Subject specific skills:**

- C1) Implement solutions of descriptive statistics
- C2) Implement solutions of Baye's theorem
- C3) Implement solutions of binomial distribution and Poisson distribution
- C4) Implement solutions of inferences about population parameters

**D) Transferable Skills:**

- D1) Home works and quizzes.
- D2) Assignments



**\* Course Contents and Schedule:**

Semester Weeks	Subject
First	<b>Introduction</b> Classification of data
Second	<b>Descriptive statistics</b> Measures of central tendency (Mean, median, mode) Measures of dispersion (range, variance, standard deviation)



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Third	Frequency distribution Graphs Measures of central tendency for grouped data (mean, median, mode) Measures of dispersion for grouped data (range, variance, standard deviation)	
Fourth	<b>Counting techniques</b> Multiplication rule , Permutations , Combinations	
Fifth	<b>Axioms of probability</b> Theorems of probability	
Sixth	Conditional probability Baye's theorem	
Seventh	Independence	
Eighth	<b>Discrete probability distribution</b> Mean, variance, standard deviation	
Ninth	<b>Special discrete probability distribution</b> Bernoulli distribution Binomial distribution Poisson distribution	
Tenth	<b>Continuous probability distribution</b> Mean, variance, standard deviation	
Eleventh	Normal distribution Properties of normal distribution	
Twelfth	Standard normal distribution Student t distribution Chi square distribution	
Thirteenth	Central limits theorem	



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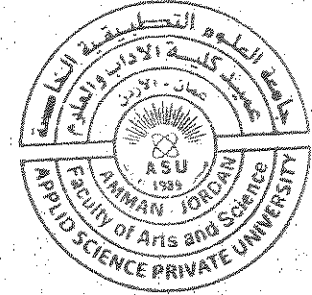
المستوى الذهبي

### جامعة كل العرب

Fourteenth	<b>Estimation of the mean</b> Proportion confidence interval for the mean Variance proportion Hypothesis testing: type I and type II error, test for the mean
Fifteenth	<b>Pearson's and Spearman's correlation coefficients</b> Linear regression, Prediction
Sixteenth	<b>Final</b>

#### \* Teaching Methods:

- Inter active lectures
- Group discussions
- Self reading
- Written assignments



#### \* Evaluation:

Midterm Exam	30%	(22/4/2021) (Microsoft Teams)
Assignments	20%	
Final Exam	50%	

#### \* Textbook:

Raqab.M, Awad. A, Azzam.M: Principles of Statistics, Fourth edition.

#### \* References:

- 1) Salim.S. D.and Abu-hweij: introduction to probability and statistics 2004.
- 2) Richard A. Johnson : Statistics principles and methods second edition 2
- 3) Harold Larson : introduction to probability theory and statistical inference third edition

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جامعة كل العرب

Subject Coordinator :Dr.Eman Almuhur

Head of Curriculum Committee: Dr. Husam Miqdad

Department Head: Dr. Husam Miqdad

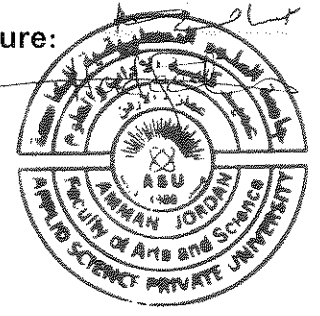
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Copy to:

- Department Head.
- Head of Curriculum Committee.
- Course File.

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رمز النموذج: UF 28 / 1

رقم القرار 24 / 233

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