

Statistics and Probabilities
Section(1201)stat
First Semester 1442 / 1443

Instructor Information:

Website	Email	Office	Office hours	Instructor
http://fac.ksu.edu.sa/aalfifi/home	aalfifi@ksu.edu.sa	Building 26 Office 4		Amal Al-fifi

Reference:

- -Introduction To Statistics (stat-book): Made Easy : Second Edition
Prof. Dr. Hamid Al-Oklah Dr. Said Titi Mr. Tareq Alodat
- -Elementary Biostatistics with Applications from Saudi Arabia
By : Nancy Hasabelnaby

Course Description:

(100)stat course will cover the following topics:

Week NO.	topics	
1	Add and delete + Introduction.	
2	Organization and presentation of data by tables and graphically	
3	Follow Organization and presentation of data by tables and graphically	
4	Measures of central tendency : arithmetic mean, Weighted mean, Median and Mode	
5	Measures of dispersion : range, Variance , Standard deviation and coefficient of variation and Chebychev inequality	Q1+ HW1
6	Follow Measures of dispersion	Mid1
7	<u>Midterm Examination- 1</u>	
8	Basic concepts in probability: sample space of an experiment.	
9	The probability of an events, apply of algebra of events, Conditional probability, and Bayes rule	

10	Random variables and their probability distribution. Discrete random variables (probability mass function, expected value, variance)	
11	Binomial distribution and Poisson distribution.	
12	Continuous random variable: probability density function.	Q2+ HW2
13	Normal distribution, standard normal distribution, calculating probability of normal distribution.	
14	Review	

Grading Policy:

- Mid#1 30
- 2 Quizzes 20
- Homework + Participation 10
- Final Exam 40

Class Rules:

- It is advised that you regularly check on the tutor's website. All the lectures and grades will be available on the site, which will be updated regularly.
- Attendance of lectures is crucial to comprehend the subject . Students who fail to attend and have 25% absence will be removed from the class.
- All students must be punctual. Those who attend late will be allowed to sit the lecture but will be marked as absent.
- Those who fail to attend the monthly examination will not get the opportunity to repeat the exam. Those with special circumstances such as bereavement of a close relative, or those who have recently undergone an operation are exempt from this rule .
- Weekly assessment will take place in the form of a quiz . No text books or notes can be used.

- Practical assessments will be conducted individually. Engaging in conversation with others while being assessed will terminate the assessment.
- Failure to attend practical assessments will not be compensated at another time even if you have a medical note.
- Homework that has been plagiarised will be given a grade of Zero.