FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Engineering & Technology

Mathematics& Statistics & Computers

Information :

Course Code :	MTH 213	**Level :**	Undergraduate	**Course Hours :**	3.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Mahmoud Haussieny Gomaa Harpy	0

Area Of Study :

1- Give basic definitions.
2- Use standard method to deal with various techniques of integration.
3- Random variables, distribution functions, estimaion , siginficance statistic. and softwares programs , Computer languages and Applications.
4- Some special families of univariate distributions. Joint, conditional and marginal distributions stochastic independence.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Define and distinguish between various statistical theories
2 -	Apply those theories and discuss some concepts dealing with these theories
b.Intellectual Skills: :	
1 -	All subjects concerned with statistical theories illustrate a
2 -	The student should be able to deal with statistical techniques
c.Professional and Practical Skills: :	
1 -	Application of statistical theories
2 -	Clarify some properties and concepts touching those fields
d.General and Transferable Skills: :	
1 -	Ability of dealing with theories and distinguishing various methods
2 -	Ability of presenting a method to give an application to some theory

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Descriptive Statistic: Data Description, Frequency distributions for Categorical Data , Measure of central Tendency , and Numerical Measure of Variability , Measure of position, Exploratory Data Analysis	12	6	6

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Probability and counting: Random variables, Distribution functions, and Joint, conditional and marginal distributions, and Cumulative distribution function	8	4	4
Discrete Probability Distribution: Mean, variance and standard Deviation	8	4	4
Important Distributions: Bin(n,p), Poisson( ), and	8	4	4
Confidence Intervals and Sample Size : Confidence Intervals for the Mean when Standard deviation is know , Good Estimator	4	2	2
Solve problems : Using Statistical Program e.g.: Minitab and Excel programs	8	4	4

Teaching And Learning Methodologies :

Presentation to students in classrooms.

Direct study of notes or books.

Solving problems in practical hours.

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments and quizzes	20.00	1	i- Discussions in the lectures to assess the student ability to gain new information.
Attendance and Participation	10.00	1	i- Discussions in the lectures to assess the student ability to gain new information.
Final- Exam	40.00	15	i- Discussions in the lectures to assess the student ability to gain new information.
First mid-term Exam	15.00	6	i- Discussions in the lectures to assess the student ability to gain new information.
Second mid-term Exam	15.00	12	i- Discussions in the lectures to assess the student ability to gain new information.

Course Notes :

Course notes prepared by staff

Periodicals :

web sites

Web Sites :

web sites