

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 Mohamed Mokhtar Abdulwadud Mohamed	
Teaching Assistant	Mariam Maged Kamal Eldeen Mohamed Gomaa	

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: : Ability of dealing with theories and distinguishing various methods 1 -2 -Ability of presenting a method to give an application to some theory



Course Topic And Contents :

Торіс	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
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

http://www.fue.edu.eg