

Faculty of Engineering & Technology

Applied Statistics

Information :

Course Code : MTH 214	Level	:	Undergraduate	Course Hours :	2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Associate Professor	Nashwa Mohamed El Sayed Mohamed	4
Associate Professor	Nashwa Mohamed El Sayed Mohamed	4
Assistant Lecturer	TAREK ALI ABDALLAH TEAMA	2
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Area Of Study :

Bearing in mind modern computing systems and concentrating on the different civil engineering applications, the course will address: Reviewing methods of data presentation and analysis and the important statistical measures, Probability distributions and their applications, Sampling methods, Sample and population measures (point estimate), Tests of hypothesis and confidence limits, Correlation and regression analysis.

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Course outcomes :

a.Knowled	ge and Understanding: :
1 -	a1- Explain the principals of data resentation & analysis
2 -	a2- Define the main terms of statistical measures
3 -	a3- List the main items of probability distributions
4 -	a4- Describe the main concept of sampling methods
b.Intellectu	al Skills: :
1 -	b1- Analyze the system of data resentation & analysis
2 -	b2- Calculate the values of statistical measures
3 -	b3- Assess issues of probability distributions
4 -	b4- Solve problems regarding sampling methods
5 -	b5- Calculate the values of Sample & population measures
6 -	b6- Analyze the system of tests of hypothesis & confidence limits
7 -	b7- Calculate the values of correlation and regression



c.Professional and Practical Skills: :

1 - c1- Prepare technical reports for correlation and regression

d.General and Transferable Skills: :

1 - d1- Cooperate and communicate effectively

Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
statistical measures	8	4	4
probability distributions	8	4	4
sampling methods	8	4	4
Sample & population measures	8	4	4
tests of hypothesis & confidence limits	8	4	4
correlation and regression	8	4	4
Revision	4	2	2
data resentation & analysis	8	4	4

eaching And Learning Methodologies :
nteractive Lec.
Discussion
Problem Solving
Lab Exper.
Project
Report / Present

Course Assessment :				
Methods of assessment	Relative weight %	Week No	Assess What	
Assignments and quizzes	15.00	1		
Attendance and Participation	15.00	1		
Final-term Exam	40.00	15		
First Exam	15.00	6		
Second Exam	15.00	12		

Course Notes :

Course notes & Handouts

