

Faculty of Economics and Political Science

Introduction to Statistics

Information:

Course Code: STS 101 Level: Undergraduate Course Hours: 3.00- Hours

Department: Faculty of Economics and Political Science

Instructor Information:		
Title	Name	Office hours
Associate Professor	Mahmoud Mostafa Rashwan Abd Elnaser	3
Teaching Assistant	Mennatallah Mohamed Hassan Mahmoud Mohamed Elgamal	

Area Of Study:

This course presents the basic statistical ideas that are used in different social science disciplines. The course covers various statistical instruments such as: calculating the measures of central tendency (mean- median- mode- variance-standard deviation), providing the students with different graphical illustrations (histogram- bar charts- pie charts-stem and leaf-line and scatter plot), analyzing data and its distribution (discrete distribution-continuous distribution), as well as covering structures and methods of probability distributions. The course also familiarizes students with the use of statistical software program.

Course Goals:

- Éxprepare students with a deeper insight on the possible sub-fields in economics, political science, public administration and mass media.
- /Propanize analyses, interpret and summarize the data in a useful and informative manner.
- ÄDistinguish between different kinds of data and how they can describe the data in several behaviors.

Description:

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Course outcomes: a.Knowledge and Understanding:: 1 - 1.1) Understand data types, how data should be sampled, tabulated and graphed. 2 - 1.2) Comprehend frequency distributions and different graphical techniques. 3 - 1.3) Differentiate between descriptive and inferential statistics b.Intellectual Skills:: 1 - 3.1) Analyze problems and design problem solving techniques. 2 - 3.2) Compare and examine observational studies.



3 -	3.3) Analyze data using graphs Construct a frequency distribution, histogram, pie chart and a scatter plot.
c.Professio	onal and Practical Skills: :
1 -	2.1) Select the right sample, distinguishing between random and nonrandom sampling.
2 -	2.2) Select the appropriate law of probability to use in solving problems.
3 -	2.3) Compute the mean, median, mode, percentile, quartile, range and variance on grouped and ungrouped data.
4 -	2.4) Distinguish between discrete distribution and continuous distribution.
5 -	2.5) Experiment probability theory and rules.
d.General a	and Transferable Skills: :
1 -	4.1) Enhance critical thinking and innovation.
2 -	4.2) Abstract reasoning, methodological knowledge and technical know-how.

Topic No. of hours Lecture Tutorial / Practical Introductory Lecture and Course Outline 5 1 1 Data Collection 5 1 1 "Abethods of Collecting Data" 5 1 1 "Abethods of Collecting Data" 5 1 1 Population, Sample and Sampling Techniques 5 1 1 Data Description: Charts and graphical representation 10 2 2 #Frequency Distribution *Alistograms *Bar Chart- Pie chart- Stem and Leaf Diagram *Bar Chart- Pie chart- Stem and Sample Mean *Alistograms *Bar Chart- Pie chart- Stem and Leaf Diagram *Bar Chart- Pie chart- P	Course Topic And Contents :			
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Final Exam 1		15	3	3
	Final Exam		1	



Teaching And Learning Methodologies:

Presentation

Group discussion

Research Paper

Course	Assessment:	

					
Methods of assessment	Relative weight %	Week No	Assess What		
Course Work (Attendance, Participation, Assignments, Quizzes, Research Paperõ D	30.00		To assess theoretical background of the intellectual and practical skills		
Final Exam	40.00	15	To assess knowledge and intellectual skills		
Midterm Exam	30.00	6	To assess professional skills		