

Course description form

1. Course Name	
Statistical	
2. Code Course	
STAT109	
3. year /Semester	
2024–The second (spring) semester, first stage, 2023	
4. description was prepared Date this	
2024/2/1	
5. Available attendance forms .A	
Presence	
6. (al)/number of units (totalNumber of study hours (tot	
theoretical + 3 practical / 3.5 units 2	
7. (if more than one name is mentioned) Name of the course administrator	
M. Raghad Naseer Walid M. M. Nahid Sharif Omar	
8. objectives Course	
<p>:Practical</p> <p>Enabling the student to identify the most important data that controls In the method of collecting them, tabulating them, and placing them in a frequency tribution tabledis</p> <p>In addition to the most important statistical laws in calculating results</p> <p>To know its significance or not, based on the .null and alternative theory</p>	<p>Objectives of the study subject</p> <p>:theoretical</p> <p>nabling the student to understand and E related to statistics comprehend what is Mathematical relations and their relationship to .scientific experiments</p> <p>Enable the student to know the nature of data, its components and features</p> <p>.ataIn the method of collecting d</p> <p>– the student to become familiar Enabling with methods of collecting and classifying data .And put it in a frequency distribution table</p> <p>– Empowering the student with his ability to know the most important mathematical standards in calculating data</p> <p>dent can judge the significance of the results The stu according to the statistical hypotheses</p>

Teaching and Learning Strategies

<p>:Practical Adaptation through teamwork to reveal leadership skills Adapt tasks and reports to learn about mental skills</p>	<p>:My theory Interactive lecture – forming Brains – Dialogue and discussion – Adapt tasks and reports – - a scientific visit to Conducting private research centers With statistical data</p>	<p>The strategy</p>
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10. Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Introduction to statistics	A1 The student is given an introduction ...to Statistics by definition Variables, sections, and history of science Statistics	2 Theoretical	1
Short practical 1 test	Assigning tasks And report	The nature of statistical data and symbols Statistics	A8 recognizes the data Statistics	Practical	
Short exams, assignments, discussions	:My theory Auditory methods Style of writing on the blackboard Dialogue style Direct	:My theory The nature of statistical data	B1 explains the nature of the data Statistics in identifying data Population, sample, cal symbols and statisti	2 Theoretical	2

Solve examples and homework	Assigning tasks And report	The nature of statistical data and symbols Statistics	A8 recognizes the most important Statistical symbols And give examples	Practical	
Short exams assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Tabular presentation and graphical representation	A2 recognizes the display Aljadduli And graphical representation by recognition Types of tables and definitions some the mission And a frequency distribution table	2 Theoretical	3
Apply examples of statistical symbols and homework	Assigning tasks And report	The nature of statistical data and symbols Statistics	A8 knows the most important rules The mission is on Statistical symbols And application to it	Practical	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Frequency distribution table Relative	B2 mastered the distribution table Iterative Relative as shown in the table And the graphical representation of the distribution table Relative frequency and frequency table .The gathering	2 Theoretical	4

Short practical 1 test	Assigning tasks And report	Graphical tion and representa tabular display	C2 is familiar with graphing tabular display consists of a frequency distribution table and its representation	Practi3 cal	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Measures of concentration or mediation	B3 is proficient in positioning measures Mediation by defining standards and recognition On the most important standards and application of the mean Arithmetic, median, and mode for classified and unclassified values	2 Theore tical	5
Solve examples and homework	Assigning tasks And report	Measures of concentration or mediation	B7 liar with is fami positioning standards Mediation by applying examples of mediation Arithmetic calculation of classified and unclassified values	Practi3 cal	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	dispersion Measures of or difference	B4 Proficient in dispersion metrics Difference in definition of standards and recognition On the most important metrics and estimation of variance The standard deviation and deviation Average ssified and Cla .unclassified values	2 eoreTh tical	6

Solve examples and homework	Assigning tasks And report	Measures of concentration mediation	B7 is familiar with positioning standards Mediation by applying examples of media Classified and unclassified values	Practical	
Semester exam ' final exam ' 1 report	Auditory methods Writing style on the blackboard Dialogue style Direct	Principles of probability theory	C1 Explains theoretical principles Probabilities by defining probabilities The most important terms used And discrete probability distributions and properties Binomial distribution	2 Theoretical	7
Solve examples and homework	Assigning tasks And report	Measures of concentration mediation	B7 is familiar with positioning standards Mediation by applying examples along the lines Classified and unclassified values	3 practical	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Hypothesis testing	B5 Proficient Test Hypotheses by identifying the most important Statistical hypotheses and decision making	Theoretical	8

Short practical test 2	Assigning tasks And report	Measures of dispersion or difference	B8 is familiar with dispersion metrics Difference by applying examples to the term Variance, mean and standard deviation	Practical		
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	square distribution -Chi	A3 recognizes the square distribution Chi by definition of chi square and steps Test and apply an example distribution Chi square	Theoretical	9	
Solve examples with homework	Assigning tasks And report	Principles of probability theory	C1 Proficient in theoretical principles Possibilities by taking applications on Possibilities	3 practical		
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Statistical tests	A4Familiar with statistical tests By learning about the most important steps Statistics for tests	Theoretical	10	
Solve examples with homework	Assigning tasks And report	Hypothesis testing	C3 illustrates hypothesis testing Estimating hypotheses after solving an example On that	3 practical		

Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Normal distribution	A5 recognizes the normal distribution Defining normal distribution and methods for estimating it	Theoretical	11
Short practical test 3	:practical Assigning tasks And report	Statistical tests	C4 suggests methods The most important statistical tests square test -Chi	3 practical	
Short exams, assignments and discussions Solve examples and homework	Auditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	Examples of normal distribution Test z ical tests	B6 Try examples of distribution y applying Natural b an example to the distribution Natural C4 suggests methods The most important statistical tests) distribution (Theoretical Practical	12

exams, Short assignments, discussions	ory Audit methods Writing style on the blackboard Dialogue style Direct		A6 knows thez test By definition The test and its estimation methods	Theor2 etical	13
practical Short test 4	Assigning tasks portAnd re	Statistical tests	C4 suggests methods The most important statistical tests) testz (3 practical	
exam , final 2 report , exam	Auditory methods Writing style on the blackboard Dialogue style Direct	t distribution	A7 knows thet distribution by definition The test and its estimation methods	Theor2 etical	14
Solve examples and homework	Assigning tasks And report	Statistical tests	B10 masters normal distribution Studying applications on normal distribution	Practi3 cal	

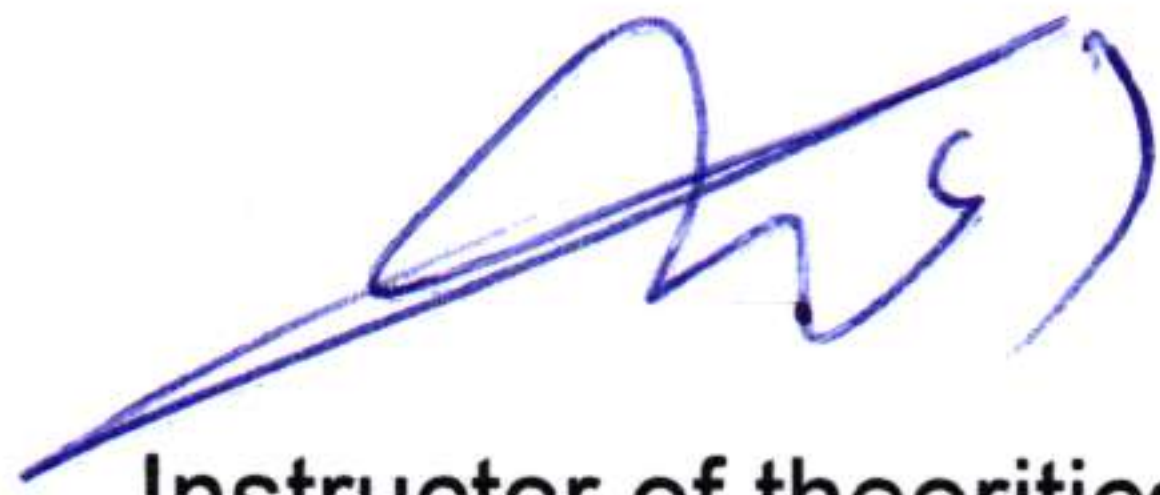
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Correlation and regression	A7 is familiar with correlation and regression Definition of correlation and regression methods Appreciate it	Theoretical	15
Short practical test 4	Assigning tasks And report	Correlation and regression	C5 shows correlation and regression By solving examples of correlation And decline	3 practical	

11. Course evaluation

g to the tasks assigned to the student, such as Distribution of the grade out of 100 according to daily preparation, daily, oral, monthly, written exams, reports, etc

Relative % weight	Class	Calendar date (week)	Calendar methods	T
%13	7 theoretical + 1 practical	My theory for a week (15) My work week (15)	A theoretical final report + a final report on the subject of the operation	1
%6	4 Theoretical + 1 Practical	(week 3)	Quiz (Short test (1	2
%15	10 theoretical + 1 practical	(week 9)	Midterm test (theoretical and practical)	3
%6	Theoretical + 1 Practical	(week 12)	Quiz (Short test (2	4
%20	20	Practical exams week	Final practical test	5

%40	40	The week of theoretical exams	Final theoretical test	6
%100	100		the total	
Learning and teaching resources .12				
of Statistics book Principles		(Required textbooks (methodology, if any		
		(Main references (sources		
tures and books published in universities Iraqi		Recommended supporting books and (...references (scientific journals, reports		
osites specialized in statistics ciplesprin		Electronic references, Internet sites		




Instructor of theoritical part

Raghad nasseer



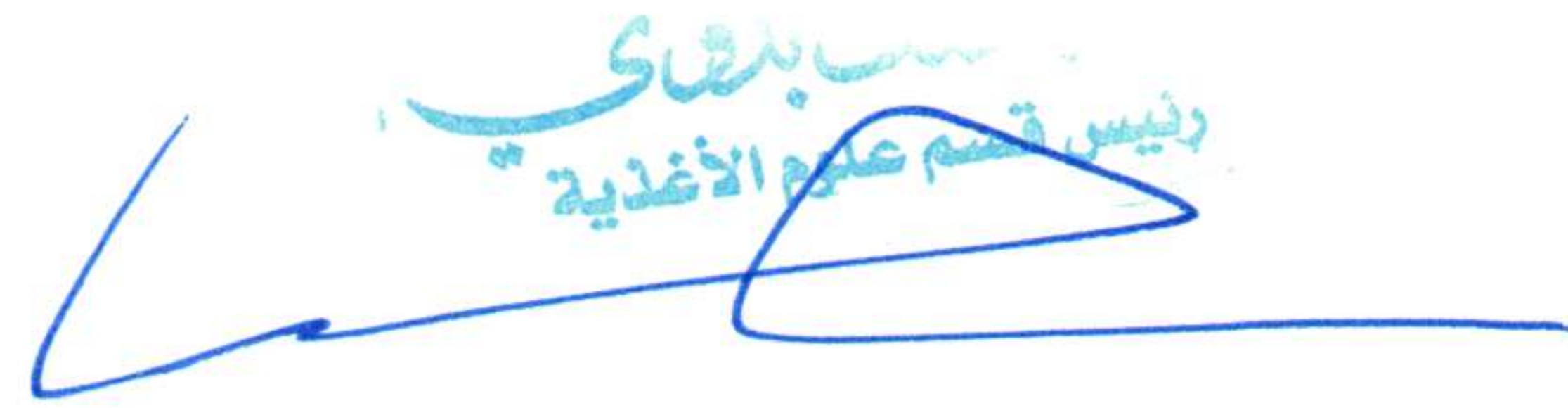
Chairman of the scientific committee

Prof. Dr. Moafak mahmood ahmed



Instructor of practical part

Nahid sharif omar



Head of the department of Food science

Prof. Dr. Sumiya kalaf badawi