

Course description form

Course Name .1	
Statistical	
Course Code .2	
STAT109	
Semester/ year .3	
The second (spring) semester, first stage, 2024-2025	
Date this description was prepared .4	
2025/2/1	
A. Available attendance forms .5	
My presence	
Number of study hours (total)/number of units (total) .6	
theoretical + 3 practical / 3.5 units 2	
Name of the course administrator (if more than one name is .7 (mentioned	
M. Raghad Naseer Walid :Name M. M. Nahid Sharif Omar	
objectives Course .8	
<p style="text-align: right;">:Practical</p> <p>abling the student to identify the most important data that controls the method of collecting them, tabulating them, and placing them in a frequency distribution table in addition to the most important statistical laws in calculating results know its significance or not, based on the null and alternative theory</p>	<p style="text-align: right;">Objectives of the study subject :theoretical</p> <p>abling the student to understand and comprehend what is related to statistics mathematical relations and their relationship to scientific experiments.</p> <p>able the student to know the nature of data, its components and features .In the method of collecting data</p> <p>abling the student to become familiar with methods of collecting and classifying data .And put it in a frequency distribution table</p> <p>powering the student with his ability to know most important mathematical standards in calculating data</p> <p>student can judge the significance of the results</p>

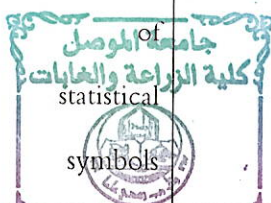


	according to the statistical hypotheses
Teaching and learning strategies .9	
:Practical adaptation through teamwork to reveal – .leadership skills – apt tasks and reports to learn about – their mental skills	:My theory Interactive lecture – Brainstorming – Dialogue and discussion – Adapt tasks and reports – nducting a scientific visit to - private research centers With statistical data
The strategy	

Course structure .10

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	student is given A1 ...an introduction to istics by definition of statistics iables, sections, and history of science Statistics	2 eoretical	1
Short practical test 1	Assigning tasks And report	nature of statistical data and symbols Statistics	recognizes the dataA8 Statistics	Practical	



Short exams, assignments, discussions	:My theory Auditory methods e of writing on the blackboard Dialogue style Direct	:My theory e nature of statistical data	lains the nature of B1 the data istics in identifying data ulation, sample, and statistical symbols	2 eoretical	2
Solve examples and homework	Assigning tasks And report	e nature of statistical data and symbols Statistics	ognizes the most A8 important Statistical symbols And give examples	Practical	
Short exams, assignments, discussions	auditory methods Writing style on the blackboard Dialogue style Direct	ular presentation and graphical representation	recognizes the displayA2 d graphical Aljadduli resentation by recognition es of tables and some definitions d a the mission quency distribution table	2 eoretical	3
Apply examples 	Assigning tasks And report	e nature of statistical data and symbols Statistics	ws the most A8 important rules istical The mission is on symbols And application to it	Practical	

and homework					
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Frequency distribution table Relative	Entered the B2 distribution table relative as shown Iterative in the table the graphical representation of the distribution table relative frequency and frequency table The gathering	2 Theoretical	4
Short practical test 1	Assigning tasks And report	Graphical representation and tabular display	familiar with C2 graphing tabular display consists of a frequency distribution table and its representation	Practical	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Measures of concentration or mediation	proficient in B3 positioning measures mediation by defining standards and recognition the most important standards and application of the mean arithmetic, median, and mode for classified and unclassified values	2 Theoretical	5

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Solve examples and homework	Assigning tasks And report	asures of concentration or mediation	familiar with B7 positioning standards diation by applying examples of mediation arithmetic calculation of ssified and unclassified values	Practical	
Short exams, assignments, discussions	auditory methods Writing style on the blackboard Dialogue style Direct	asures of dispersion or difference	efficient in dispersion B4 metrics ference in definition of standards and recognition the most important trics and estimation of variance e standard deviation and deviation ssified and Average unclassified values	2 eoretical	6
Solve examples and homework	Assigning tasks And report	asures of concentration or mediation	familiar with B7 positioning standards diation by applying examples of mediation ssified and unclassified values	Practical	



Semester exam 1, final exam, report	Auditory methods Writing style on the blackboard Dialogue style Direct	Principles of probability theory	Explains theoretical principles of probabilities by defining probabilities most important terms used discrete probability distributions and properties Binomial distribution	2 Theoretical	7
Solve examples and homework	Assigning tasks And report	Measures of concentration or mediation	Familiar with B7 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	Proficient Test B5 hypotheses by identifying the most important statistical hypotheses and decision making	5 Theoretical	8
Short practical test 2	Assigning tasks And report	Measures of dispersion or difference	Familiar with B8 dispersion metrics ference by applying examples to the term variance, mean and standard deviation	8 Practical	

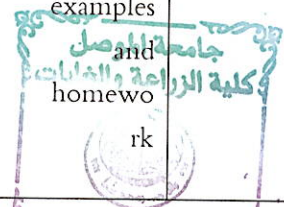


Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Chi-square distribution	Recognizes the square A3 distribution by definition of chi square and steps and apply an example distribution Chi square	theoretical	9	
Solve examples with homework	Assigning tasks And report	Principles of probability theory	Efficient in theoretical C1 principles possibilities by taking applications on Possibilities	Practical 3		
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Statistical tests	Familiar with statistical A4 tests Learning about the most important steps Statistics for tests	theoretical	10	



قسم علوم الأحياء
البيولوجية

Solve examples with homework	Assigning tasks And report	Hypothesis testing	strates hypothesis C3 testing imating hypotheses after solving an example On that	actical 3	
Short exams, assignments, discussions	auditory methods Writing style on the blackboard Dialogue style Direct	Normal distribution	gnizes the normal A5 distribution ining normal tribution and methods for estimating it	heoretic al	11
Short practical test 3	:practical Assigning tasks And report	Statistical tests	suggests methodsC4 most important statistical tests Chi - square test	actical 3	
Short exams, assignments and discussions Solve examples and homework	auditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	mples of normal distribution Statistical tests	examples of B6 distribution ural by applying an mple to the distribution Natural suggests methodsC4 most important statistical tests (t) distribution	heoretic al Practical	12



قسم علوم الإحصاء

Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	testz	z test knows theA6 definition test and its estimation methods	heoretic al	13
Short practical test 4	Assigning tasks And report	Statistical tests	suggests methodsC4 most important statistical tests (z) test	actical 3	
exam , 2 final exam , report	Auditory methods Writing style on the blackboard Dialogue style Direct	distributiont	knows theA7 definitiondistribution test and its estimation methods	heoretic al	14



Solve examples and homework	Assigning tasks And report	Statistical tests	ters normal B10 distribution solving applications on normal distribution	Practical	
Short exams, assignments, discussions	Auditory methods Writing style on the blackboard Dialogue style Direct	Correlation and regression	familiar with A7 Correlation and regression definition of correlation and regression methods Appreciate it	Theoretical	15
Short practical test 4	Assigning tasks And report	Correlation and regression	Knows correlation and C5 regression solving examples of correlation And decline	Practical 3	

Course evaluation .11

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

Relative % weight	Class	Calendar date (week)	Calendar methods	T
%13	7 theoretical +1 6 practical	My theory for a week (15) My work week (15)	A theoretical final report + a final report on the subject the operation	1
%6	4 Theoretic + al	week (3)	Quiz Short test (1)	2



	2Practic al			
%15	10 theoretica +l 5 practical	week (9)	Midterm test (theoretical and (practical	3
%6	4Theoret + ical 2Practic al	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

Principles of Statistics book	Required textbooks (methodology, if any)
	Main references (sources)
atures and books published in universities Iraqi	Recommended supporting books and references (scientific journals, reports....)
bsites specialized in statistics principles	Electronic references, Internet sites



Instructor of theoretical part

Raghad nasseer



Chairman of the scientific committee

A. Prof. Dr. Taha M. Taqi



Instructor of practical part

Nahid sharif omar



Head of the department of Food science

A.Prof. Dr. Taha M. Taqi

