Course description form

1. Course Name
Statistical
2. Code Course
STAT109
3. year /Semester
2024 −2025
4. description was prepared Date this
2024/2/1
5. Available attendance forms .A
My presence
6. (units (total Number of study hours (total)/number of
theoretical + 3 practical / 3.5 units 2
7. if more than one name is) Name of the course administrator (mentioned
Dr. Zaid Mohammed Talal Abdel Salam M.M. Khalil Ibrahim Khalil
8. objectives Course

:Practical Enabling the student to identify the most importa data that controls In the method of collecting them, tabulating ther them in a frequency distribution table and placi In addition to the most important statistical laws calculating results To know its significance or not, based on the nu .and alternative theory	**subject Objectives of the study** :theoretical − Enabling the student to understand and related to statistics comprehend what is Mathematical relations and their relationship to scient .experiments − Enable the student to know the nature of data, it components and features .method of collecting data In the − Enabling the student to become familiar with methods of collecting and classifying data .And put it in a frequency distribution table − Empowering the student with his ability to kn the most important mathematical standards in lculating dataca The student can judge the significance of the results

	according to the statistical hypotheses

9. Teaching and learning strategies

The strategy	:My theory	:Practical
	Interactive lecture – Brainstorming – Dialogue and discussion – Adapt tasks and reports – Conducting- cientific visit to private research centers With statistical data	– ptation through teamwork to reveal leadership skills. – Adapt tasks and rts to learn about their mental skills

Course structure .10

the week	hours	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	2 heoretical Practical3	oretical: The student is iliar with an ...introduction to stics by definition of statistics ables, sections, and history of science Statistics . Practical: recognizes data Statistics	:My theory .Introduction to statistics :practical nature of statistical data and symbols Statistics	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	Short exams, assignments, discussions
2	2 heoretical Practical3	oretical: Explains the the data nature of tistics in identifying data ulation, sample, and statistical symbols tical: learns the most important Statistical symbols	:My theory e nature of statistical data :Practical nature of statistical data symbols and Statistics	:My theory uditory methods e of writing on the blackboard Dialogue style Direct :practical Assigning tasks And report	Short exams, assignments, discussions

			And give examples		
Short exams, assignments , discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks report And	ar :Theoretical ntation and graphical representation :Practical nature of statistical data and symbols Statistics	n about :Theoretical tabular presentation graphical esentation by identifying types es and some important definitions a frequency distribution table tical: He is familiar the most important rules stical symbols and their application	2 heoretical Practical3	3
Short exams, assignments, discussio	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: frequency distribution table Relative :Practical hical representation display and tabular	oretical: Master the uency distribution table os by explaining the and graphical representation the relative frequency distribution table uency And a cluster .table tical: Familiar with	2 heoretical Practical3	4

ns			graphical representation lar display consists of a ıency distribution table and its representation		
Short exams, assignments, discussions	:My theory uditory methods Writing style on blackboard the Dialogue style Direct :practical Assigning tasks And report	oretical: Measures of ncentration or mediation :Practical sures of concentration or mediation	oretical: He masters measures of concentration or liation by defining andards and recognition the most important dards and application of the mean nmetic, median, and le for classified and unclassified values . tical: Familiar with positioning standards ying Mediation by examples of mediation nmetic calculation of ified and unclassified values .	2 heoretical Practical3	5
Short exams, assignments,	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: Measures of dispersion or difference :Practical sures of concentration or mediation	oretical: Proficient in dispersion metrics erence in definition of andards and recognition most important On ics and estimation of variance standard deviation and the mean deviation	2 heoretical Practical3	6

discussio ns			sified and unclassified .values :Practical iliar with positioning standards liation by applying examples of mediation ssified and unclassified values		
Short exams, assignme nts, discussio ns	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: Principles of probability theory :Practical sures of concentration mediation or	oretical: Explains theoretical principles abilities by defining probabilities most important terms used discrete probability perties distributions and Binomial distribution tical: Familiar with positioning standards liation by applying examples along the lines sified and unclassified values	2 heoretical Practical3	7

Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: testing hypotheses :cticalPra sures of dispersion or difference	oretical: proficient in ugh testing hypotheses identification the most important statistical hypotheses And make decisions tical: Familiar with dispersion standards erence by applying examples to the term ance, mean and standard deviation	eoretica2 1 ractical3	8	
Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	re -Theoretical: Chi ondistributi :Practical ciples of probability theory	Theoretical: Identify square distribution by definition of chi square and steps and apply an example distribution Chi square . tical: mastering theoretical principles ibilities by taking applications on Possibilities	eoretica2 1 ractical3	9	

Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	heoretical: statistical tests :Practical Hypothesis testing	oretical: Familiar with statistical tests earning about the most important steps Statistics for tests tical: demonstrates hypothesis testing nating hypotheses after solving an example On that	eoretica2 l ractical3	10
Short exams, assignments, discussions	:My theory uditory methods ting style onWri the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: normal distribution :Practical Statistical tests	oretical: Learn about distribution the normal ning normal ibution and methods for estimating it . ctical: suggests methods most important statistical tests square test -Chi	eoretica2 l ractical3	11
Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard yleDialogue st Direct :practical Assigning tasks And report	nples of : Theoretical normal distribution :Practical Statistical tests	oretical: Experiments examples of distribution ıral by applying an ribution example to the Natural ctical: suggests methods most important statistical tests (t) distribution	eoretica2 l ractical3	12
Short exams,	:My theory uditory methods Writing style on the blackboard	z test :Theoretical :Practical	oretical: Familiar with By definition z test the test and its estimation methods	eoretica2 l ractical3	13

assignments, discussions	Dialogue style Direct :practical Assigning tasks And report	Statistical tests	ıctical: suggests methods ɒrtant The most statistical tests (z) test		
Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	istribution :Theoretical :Practical Statistical tests	oretical: familiar with distribution the definition test and its estimation methods tical: Master the normal distribution ying applications on normal distribution	eoretica2 1 ractical3	14
Short exams, assignments, discussions	:My theory uditory methods Writing style on the blackboard Dialogue style Direct :practical Assigning tasks And report	oretical: Correlation and regression :Practical d regression Correlation	oretical: familiar with ɒrrelation and regression nition of correlation and regression methods Appreciate it tical: Explains elation and regression solving examples of ɒrrelation and regression	eoretica2 1 ractical3	15

Course evaluation .11

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

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

	Theoretic + al Practica2 l			
%15	10 theoretica +l 5 practical	(week (9	Midterm test (theoretical and (practical	3
%6	Theoreti4 + cal Practica2 l	(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	

12. Learning and teaching resources

Principles of Statistics book	(Required textbooks (methodology, if any
	(Main references (sources
tures and books published in universities Iraqi	Recommended supporting books and (….references (scientific journals, reports
stics Websites specialized in principles	Electronic references, Internet sites

كلية الزراعة والغابات
أمانة مجلس الكلية

جامعة الموصل / كلية الزراعة والغابات
التسجيل

الدكتور
فراس كاظم داؤد الجبوري
رئيس قسم وقاية النبات

جامعة الموصل
كلية الزراعة والغابات
قسم وقاية النبات

أ.د. هيثم يونس محمد
رئيس اللجنة العلمية