

### Course description form

1.	: Course Name
	Principles of agricultural statistics
2.	:Course Code
	AGST250
3.	Semester/Year: Annual
	semester / first stage / 2024 Second
4.	Date this description was prepared
	1/2/2024
5.	Available forms of attendance:
	In person
6.	:Number of study hours (total)/number of units (total(
	theoretical hours / 3 practical hours (5 hours) / 3.5 units 2
7.	Name of the course administrator (if more than one name is mentioned)
	Mr. Dr . Alaa Muhammad Abdullah M. Rahhal Sobhi Qasim M.M. Farah Mohsen A
8.	Course objectives
	<ul style="list-style-type: none"> <li>• . Introducing the student to agricultural statistics</li> <li>• Preparing agricultural cadres capable of familiarity with the means of preparing research and knowing the arithmetic mean</li> <li>• <b>The skill of conducting field application for the purpose of self-development and personal development, and the skill of using educational methods</b></li> <li>• Preparing the student to advance the reality of economics, which the department is interested in addressing in its study programs</li> <li>•</li> </ul>
9.	Teaching and learning strategies
	<ul style="list-style-type: none"> <li>- Interactive lecture</li> <li>- Brainstorming</li> <li>- Dialogue and discussion</li> <li>- Field Training</li> <li>- Practical exercises</li> <li>- Field project</li> <li>- Self-education</li> </ul>

Course structure .10

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Time series The concept of - time series Time series - analysis Types of models -	A1 defines time series	2Theoretical	1
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Identify statistics - and its importance Clarifying the - stages of statistical research Explaining the - relationship of statistics to other sciences	A2Learn about the basics of agricultural statistics	3Practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Components of the time series: 1- The general trend First: How to boot by hand	B1 Lists the components of the time series	2Theoretical	2
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Explaining the - branches of statistics Clarifying - agricultural census activities Identify the - origins and development of agricultural statistics	A2Explains the branches of statistics	practical	

Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Second: The method of averages of the two halves of the series	A2 finds the general trend equation using the semiseries average method	theoretical	3
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Clarifying the role of the Food and Agriculture Organization Enumeration of types of agricultural statistics	C2 Explains the role of the Food and Agriculture Organization	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Third: The moving average method	A2 finds moving averages	theoretical	4
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue and discussion, self-learning	The concept of agricultural censuses and their importance Comparing basic and current agricultural statistics Mention the benefits of agricultural censuses	A1 Knows agricultural censuses	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Fourth: The least squares method	C1 Calculates the general trend equation using the least squares method	theoretical	5
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue and discussion,	Explaining agricultural census methods Explaining the types of samples	A2 Explains the methods of the agricultural census	practical	



	self-learning				
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Seasonal -2 changes First: The method of ratio to the moving average	C2 shows seasonal changes	theoretical	6
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Conditions that - must be met in the agricultural census Understanding - the obstacles and problems facing Agricultural census Explaining the - sources of errors in the agricultural census	B1 Enumerates the conditions that must be met in the agricultural census	practical	
Semester exam 1, final exam	lecture , brainstorming dialogue and discussion, self-learning	Second: Simple averages method	A3 is solved using the simple averages method	theoretical	7
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Steps to - implement the agricultural census	B1 enumerates the steps for implementing the agricultural census	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Third: The method of ratio to the general average	A4 is demonstrated using the general mean ratio method	theoretical	8

Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Size and - composition of the total land stock Earth's balance - Sowed land and - planted land	C2 Explains Earth statistics	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Fourth: The method of ratio to the general trend	C3 uses the method of ratio to the general trend	theoretical	9
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Examples of - economic evaluation of land	A1 defines the economic valuation of the land	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Periodic -3 changes	C4 analyzes using periodic changes	theoretical	10
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Agricultural - production indicators In-kind estimation - of agricultural production Methods of - estimating agricultural production Commodity – balances for agricultural products Monetary - estimation of agricultural production	C2 shows agricultural production statistics	practical	

Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Irregular -4 changes	B5 Evaluates irregular changes	theoretical	11
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Examples of - changes in agricultural production	C4Analyzes the change in agricultural production	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Standard numbers Configure the - record number Simple index - number	A2 explains index numbers	theoretical	12
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Examples of The - impact of factors on the growth of agricultural production	C4 analyzes the impact of factors on agricultural production growth	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Unweighted - aggregate price indices The simple -1 aggregate index number The cumulative -2 index of lineages	D1 estimates unweighted aggregate price indices	theoretical	3 1
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Number of - Workers Labor installation -	C2 shows labor statistics	practical	



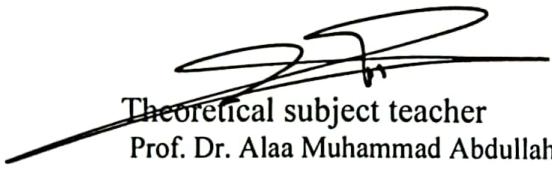
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Weighted - aggregate price indices Laspeyre -1 method Bash method -2 Igort method	D1 estimates weighted aggregate price indices	theoretical	4 1
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Labor movement - working time -	A2 explains the movement of labor	practical	
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Standard numbers - for quantities ( Laspeyre , Pasch, (Fisher Relative index - numbers for prices and quantities Linking standard - numbers	B4 Examines standard numbers of quantities	theoretical	15
Semester exam 1, final exam	Interactive lecture, brainstorming dialogue and discussion, self-learning	Methods of - calculating labor productivity Indicators for - calculating labor productivity Change in labor - productivity	C1 Shows labor productivity	practical	

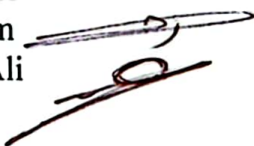
#### 11. Course evaluation

% Relative weight	Class	Calendar date (week)	Calendar methods
52.	52.	the third week	(1 Quiz) Short test
20	20	the sixth week	Theoretical semester test
2.5	2.5	The ninth week	(Quiz2)) Short test
40	40	Final semester	Final theoretical


		exam	test
2.5	2.5	The first week	Practical short test (1) Quiz
5.2	2.5	fourth week	Short practical test (2) Quiz
10	10	the sixth week	Practical semester test
20	20	Final semester exams	Final practical test
100%	100%		the total

12. Learning and teaching resources	
Agricultural Statistics, Dr. Khalaf Abdul Hussein	Required textbooks (methodology, if any)
Agricultural Statistics , Dr. Ali Darb Kassab	Main references (sources)
Principles of probability and statistics Dr. Ezz Omar Qasim Applied Statistics Dr. Muhammad Abdel-Al Nuaimi, Dr. Hassan Yassin Tohme	Recommended supporting books and references (scientific journals, reports....)
nothing	Electronic references, Internet sites

  
Theoretical subject teacher  
Prof. Dr. Alaa Muhammad Abdullah

  
Practical subject teacher  
M. Rahhal Sobhi Qasim  
M.M. Farah Mohsen Ali

  
Chairman of the Scientific Committee  
Prof. Dr. Alaa Muhammad Abdullah

  
Head of the Agricultural Economics Department  
Prof. Dr. Alaa Muhammad Abdullah

