

Republic of Iraq

The Ministry of Higher  
Education

& Scientific Research



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

University: Diyala  
College: Agriculture  
Department: Soil Sciences and  
Water Resources  
Stage: Second  
Lecturer name: Ahmed Sulaiman  
Abdullah  
Qualification: PhD  
Place of work: Soil Sciences and

## Flow up of implementation celli pass play

Course Instructor	Ahmed Sulaiman Abdullah				
E-mail	ahmed_alogaidi_eng@uodiyala.edu.iq				
Title	Principles of Statistics				
Course Coordinator	Second Semester				
Course Objective	<ol style="list-style-type: none"><li>1- Statistics studies the definition of statistics and the division of statistics.</li><li>2- Introducing statistical symbols.</li><li>3- Display and summarize data in frequency distribution tables.</li><li>4- Calculating measures of mediation (centralization) and measures of dispersion.</li><li>5- Calculating probabilities (combinations and permutations).</li><li>6- Probability distributions (binomial distribution).</li></ol>				
Course Description	This course aims to deepen the student's knowledge of the basics of statistics. Basic topics include frequency distribution tables, measures of central tendency, measures of dispersion, principles of probability, probability distributions, normal distribution, hypotheses and statistical .decision making, correlation and regression				
Textbook	<ol style="list-style-type: none"><li>1- Steel, R.G.D. and J.H. Torrie, 1980. principles and procedures of statistics.</li><li>2- 1980, مبادئ الاحصاء تأليف د.خاشع الراوي</li></ol>				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes					

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Week	Practical part	Theoretical part	Date	comments
1	Definitions of statistical terms	A historical overview of statistics and Definition of statistics.		
2	Examples of statistical symbols	Statistical symbols		
3	Practical examples of types of graphical displays	Display and summarize data		
4	Examples of frequency distribution tables	Frequency distribution tables		
5	Examples of concentration metrics	Positioning metrics		
6	Examples of measures of dispersion	Measures of dispersion		
7	Examples of permutations and combinations	Principles of probability Combinations and permutations		
8	Examples of probability distributions and binomial distributions	Probability distributions Binomial distribution		
9	Examples of normal distribution and calculating areas under the normal curve	Normal distribution		
10	Examples of hypothesis testing	Hypothesis testing Statistical errors		
11	Z -test	Z- test		
12	Examples of uses of the t- test to test statistical hypotheses	t- distribution Hypothesis testing- t- distribution		
13	Examples of the uses of the f- test in testing statistical hypotheses	f distribution - Hypothesis testing-f		
14	Examples of the uses of the chi-square test in testing statistical hypotheses	Chi-square test		
15	Examples of simple linear correlation and simple linear regression	Simple linear correlation and simple linear regression		

**Instructor Signature:**  
Ahmed Sulaiman Abdullah  
2025 / 1 / 15

**Dean Signature:**  
Prof. Dr.Raaed Ibrahim Khalil  
2025/1/15