

## MODULE DESCRIPTION FORM

Module Information				
Module Title	<b>AGRICULTURAL STATISTICS</b>		Module Delivery	
Module Type	<b>Core learning activity</b>		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	<b>AGS1060</b>			
ECTS Credits	<b>5</b>			
SWL (hr/sem)	<b>125</b>			
Module Level	UGI	Semester of Delivery		2
Administering Department	AGME1986	College	AGFO1964	
Module Leader	Yousif Yakoub Hilal		e-mail	Yousif.Yakoub@uomosul.edu.iq
Module Leader's Acad. Title	<b>Assistant Professor</b>	Module Leader's Qualification	<b>Ph.D.</b>	
Module Tutor	N.A.		e-mail	N.A.
Peer Reviewer Name	N.A.		e-mail	N.A.
Scientific Committee Approval Date	1/2/2026	Version Number	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Objectives</b>	1– Knows statistics and its types, and differentiates between descriptive statistics and inferential or inferential statistics 2– Explains what descriptive variables are, and recognizes the difference between a sample and a population 3– Organizes and draws a frequency distribution table and identifies its parts 4– Organizes a relative frequency distribution table and ascending and

	<p>descending summation</p> <p>5–Finds the arithmetic mean – and recognizes the properties of the arithmetic mean</p> <p>6– Works on how to find the range, mean deviation, variance, and standard deviation</p>
<b>Module Learning Outcomes</b>	<p>LO#1: Is able to compile and classify data, and present it with tables and graphics</p> <p>LO#2: Is able to calculate descriptive statistics of numerical data.</p> <p>LO#3: Can build hypothesis and test the hypothesis, and can make a statistical deduction.</p> <p>LO#4: Can build relation between the data using statistics and make interpretations on them in order to make decisions.</p>
<b>Indicative Contents</b>	<p>Enriching the student with knowledge regarding the conduct and benefit of the agricultural statistical process, and learning how to measure the measurement of centering, mediation and correlation and how to employ them in the field of agricultural engineering sciences and techniques for implementing integration correctly to reach quantity and quality</p> <p>Total hrs = 125 = SSWL - (Exam hrs) = 125-3= 122 (Time table hrs x 15 weeks)</p>

### Learning and Teaching Strategies

<b>Strategies</b>	<ol style="list-style-type: none"> <li>1. Interactive lecture, Brainstorming</li> <li>2. Dialogue and discussion</li> <li>3. Assigning reports</li> <li>4. Quizzes</li> <li>5. Show examples for writing scientific reports in the correct formats.</li> </ol>
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### Student Workload (SWL)

<b>Structured SWL (h/sem)</b>	78	<b>Structured SWL (h/w)</b>	5
<b>Unstructured SWL (h/sem)</b>	47	<b>Unstructured SWL (h/w)</b>	3
<b>Total SWL (h/sem)</b>	125		

### Module Evaluation

	Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome

<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5 and 10	LO#2
	<b>Collage Assignments</b>	2	10% (10)	2 and 12	LO#1, LO#2 and LO#3
	<b>Home Assignments</b>	1	10% (10)	Continuous	All
	<b>Report</b>	1	10% (10)	13	LO#3
<b>Summative assessment</b>	<b>Midterm Exam</b>	2hr	10% (10)	7	LO#2
	<b>Final Exam</b>	3hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

	<b>Material Covered</b>
<b>Week 1</b>	Introduction to the nature of statistics and the most important sections of statistics - the nature of data and statistical symbols
<b>Week 2</b>	The nature of statistical data - the difference between quantitative and descriptive variables, with examples of each type
<b>Week 3</b>	The difference between society and sample with mathematical examples
<b>Week 4</b>	Tabular and Graphing - Frequency Distribution Table - How to Create Classes and Find Class Length
<b>Week 5</b>	Clustered Distributions - Descending Cumulative Frequency Distribution Table - Frequency Curve - Graph of Cumulative Frequency Distribution Table
<b>Week 6</b>	Measures of mediation and centering - arithmetic mean - geometric mean
<b>Week 7</b>	Measures of centering and centering - harmonic mean - squared mean - median - mode
<b>Week 8</b>	Measures of dispersion or variation - range - mean deviation - variance and standard deviation
<b>Week 9</b>	Measures of dispersion or variation - the most important properties of variation or standard deviation - standard error - standard score
<b>Week 10</b>	Principles of probability theory - factorial - permutations - combinations - random experiment
<b>Week 11</b>	Discrete Probability Distributions - Binomial Distribution - Properties of Binomial Distribution
<b>Week 12</b>	Hypothesis Testing - Statistical Hypothesis - Null Hypothesis - Alternative Hypothesis
<b>Week 13</b>	Types of Error - General Steps in Hypothesis Testing
<b>Week 14</b>	T-test - Z-test
<b>Week 15</b>	Simple Correlation and Regression - Correlation Coefficient
<b>Week 16</b>	<b>Preparatory week before the final Exam</b>

### Delivery Plan (Weekly Syllabus)

	<b>Material Covered</b>
<b>Week 1</b>	The natural of statistical data
<b>Week 2</b>	The natural of statistical data
<b>Week 3</b>	Statistical symbol

<b>Week 4</b>	Graphical represent and display of data
<b>Week 5</b>	Graphical represent and display of data
<b>Week 6</b>	Measures of mediation and centering
<b>Week 7</b>	Measures of mediation and centering
<b>Week 8</b>	Measure of dispersion or different
<b>Week 9</b>	Measure of dispersion or different
<b>Week 10</b>	Midterm exam
<b>Week 11</b>	Probability theory
<b>Week 12</b>	Statistical test
<b>Week 13</b>	Statistical test
<b>Week 14</b>	Correlation coefficient data analysis
<b>Week 15</b>	<b>Preparatory week before the final Exam</b>

### Learning and Teaching Resources

	Text	Available in the Library?
<b>Required Texts</b>	introduction to Statistics - Principles of Statistics	Yes
<b>Recommended Texts</b>	Statistics and Statistical Methods Book	No
<b>Websites</b>	<a href="https://www.udemy.com/course/bmwqjwxb/?srsltid=AfmBOoesbV6jEmBd_tAQSa288D_QY0Hc1yK1i3seCLaNtYAT4ckpyn">https://www.udemy.com/course/bmwqjwxb/?srsltid=AfmBOoesbV6jEmBd_tAQSa288D_QY0Hc1yK1i3seCLaNtYAT4ckpyn</a>	

### Grading Scheme

Group	Grade	التقدير	Marks %	Definition
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	امتياز	90 - 100	Outstanding Performance
	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors
	<b>C</b> - Good	جيد	70 - 79	Sound work with notable errors
	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	<b>E</b> - Sufficient	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54). The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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