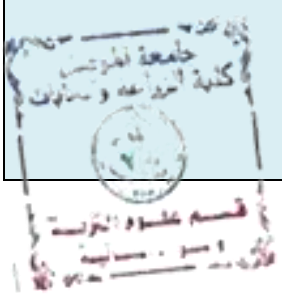
MODULE DESCRIPTION FORM

Module Information					
Module Title	AGRICULTURAL STATISTICS			**Module Delivery**	
Module Type	**Basic learning activities**			☒Theory ☒Lecture ☐Lab ☒ L Tutorial ☐Practical ☐Seminar	
Module Code	**AGS1060**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	SSWR1969, PLPR1966, HOLA1974, FORE1964, FOSC1965, FICR1973, ANPR1964, AGEC1979, AETT1979, AGME1986		**College**	AGFO1964	
Module Leader	Alla Mohamed Abdullah Omar Dheyaa Mohammed Asmaa Mohammed Adil Moyassar Mohammed Aziz **Nofal Issa Mohamed** sumyia khalaf Badawi Firas Kadhim Dawoo Aljuboori Khaled Anwer Khaled ALKHALED Talal Saeed Hameed Muzahim Saeed Al-Bek		**e-mail**	ala.mohammed58@uomosul.edu.iq dr.omaralmallah@uomosul.edu.iq asmaama@uomosul.edu.iq moyassar_aziz@uomosul.edu.iq nofelemh@uomosul.edu.iq dr.sumyia_khalf@uomosul.edu.iq firasaljuboori@uomosul.edu.iq khalid.anwar31@uomosul.edu.iq stalal1982@uomosul.edu.iq` muzahim_saeed@uomosul.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Dr. Omar Nabhan Abdulqader Ms. Mootasem Daoud Soleman		**e-mail**	umarn79@uomosul.edu.iq	
Peer Reviewer Name	N.A.		**e-mail**	N.A.	
Scientific Committee Approval Date	15/10/2024		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	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 descending summation 5-Finds the arithmetic mean - and recognizes the properties of the arithmetic mean 6- Works on how to find the range, mean deviation, variance, and standard deviation
Module Learning Outcomes	1- Knows statistics and its types, and differentiates between descriptive statistics and inferential or inferential statistics 2- Explains what descriptive variables are, and identifies the difference between a sample and a community 3- Organizes and draws a frequency distribution table and identifies its parts 4- Organizes a relative frequency distribution table and ascending and descending summation 5- Finds the arithmetic mean - and identifies the properties of the arithmetic mean 6- Works on how to find the range, mean deviation, variance and standard deviation 7- Expresses the components of discrete probability distributions 8- Recognizes the statistical hypothesis, the null hypothesis and the alternative hypothesis - Compares the types of error 9- T-TEST 10- Determine correlation coefficient and kind of relationship among variables 11- Determine simple regression analysis
Indicative Contents	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. Determine correlation coefficient for data and simple regression analysis for scientific data . **Total hrs = 63 = SSWL - (Exam hrs) = 63 - 3 = 60 hr (Time table hrs x 15 weeks)**



Learning and Teaching Strategies	
Strategies	1. Interactive lecture, Brainstorming 2. Dialogue and discussion 3. Assigning reports 4. Quizzes 5. Show examples for writing scientific reports in the correct formats.

Student Workload (SWL)			
Structured SWL (h/sem)	78	**Structured SWL (h/w)**	5
Unstructured SWL (h/sem)	47	**Unstructured SWL (h/w)**	6
Total SWL (h/sem)	125		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	1	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to the nature of statistics science
Week 2	The nature of statistical data - the difference between quantitative and descriptive variables
Week 3	The difference between society and sample with mathematical examples
Week 4	Tabular and Graphing and represent the data
Week 5	Frequency Distribution
Week 6	Measures of mediation and centering - arithmetic mean - geometric mean

Week 7	harmonic mean - squared mean - median - mode
Week 8	Measures of dispersion or variation - range - mean deviation - variance ,standard deviation and coefficient of variation and standard error
Week 9	Elementary probability theory
Week 10	Mid-term exam
Week 11	Continuous probability distributions (Normal distribution)
Week 12	Discrete probability distributions
Week 13	Correlation coefficient
Week 14	Simple regression analysis
Week 15	Multiple regression analysis
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	The natural of statistical data
Week 2	The natural of statistical data
Week 3	Statistical symbol
Week 4	Graphical represent and display of data
Week 5	Graphical represent and display of data
Week 6	Measures of mediation and centering
Week 7	Measures of mediation and centering
Week 8	Measure of dispersion or different
Week 9	Measure of dispersion or different
Week 10	Midterm exam
Week 11	Probability theory
Week 12	Statistical test
Week 13	Statistical test
Week 14	Correlation coefficient data analysis
Week 15	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	المدخل الى علم الإحصاء - مبادى علم الإحصاء	Yes
Recommended Texts	كتاب علم الإحصاء وأساليب علم الاحصاء	No
Websites	https://www.udemy.com/course/bmwqjwxb/?srsltid=AfmBOooesbV6jEmBd_tAQSa288D_ _QY0Hc1yK1i3seCLaNtYAT4ckpyn	

Grading Scheme			
Group	**Grade**	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	(45-49)	More work required but credit awarded
	F – Fail	(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.

Subject Lecturer

Dr. Omar Nabhan Abdulqader

Subject Lecturer

Ms. Mootasem Daoud Soleman

Head of Department

Khalid Anwar Khaled

Chairman of scientific committee

Dr. Abdalkader Absh Sbak