Description Course of Design and analysis of Agriculture experiment

1. Course Name:
Design and analysis of Agriculture experiment
2. Course code :
DAAE302
3.Semester/Year:
First Semester /Third Stage/2024 - 2025
4. The date this description was prepared :
1/9/2024 ملوم الغايات الماركية
5. 5-Available forms of attendance
blended learning
6.Number of study hours (total)/number of units (total)
2 hours theoretical/3 hours practical (5 hours)/3.5 units
7. Name of the course administrator (if more than one name is mentioned):
Dr. Omar Mudhafer Omar / theorotical
Mr. Munther younus Mohammed / Practical
8 Course Objectives
Learn about the foundations of agricultural design and implementation
• Recognize agricultural experimental designs and the advantages and straightforwardness of
each design
• He is familiar with the choice of discrimination
• Defines the problem of searching and selecting parameters
• Field design planning
• Conducts the field experiment
Analyzes research data
• Extracts results
9 UNTRANSLATED_CONTENT_START التعليم استراتيجيات
UNTRANSLATED_CONTENT_END والتعلم
- Interactive lecture - Practical exercises
- Brainstorming - Assigning specific tasks and preparing
reports on them
- Dialogue and Discussion - Self-learning
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|||UNTRANSLATED_CONTENT_END|||

10 10. Course Structure

Week	Hours	Learning outcomes required for the program*	Unit or Topic Name	Learning method	Valuation Method
	2 Theoretica	A1: Key terms in the design and analysis of experiments	Trial , Transaction, Demo Unit, Demo Error	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
1	3 Practical	Al:Introduction to experimental design and analysis	Key Terms , Statistical Codes	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	"Little Things." Little taste. Yeah, let's run "Little Things."
	2 Theoretica	A2: Basics of experimental design and analysis	Repetition , Randomization , Controlling Demo Units	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
2	3 Practical	A2: Full random design	Field trial diagram, variance analysis table	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
3	2 Theoretica	A3: Statistical Method	Identify research problem, select parameters , the choice of the adjective or adjectives studied , experiment design, experiment execution, Analyze data and results	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
	3 Practical	A3: Full random design	Exercises in full random design	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
4	2 Theoretica	A4: Group comparison	Testing the difference between the two medians , comparing the variance of two groups	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
	3 Practical	A4: Full random design in case of uneven redundancy	Variance analysis table, mathematical exercises in full random design in case of uneven repetition	Interactive lecture, brainstorming, dialogue and discussion, self- learning,	- A midterm? Laboratory test

				laboratory training	
				Interactive lecture,	
	2 Theoretica	Variance Analysis:	Single-variance analysis, binary-variance analysis	brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
5	3 Practical	A5 : Design of complete random sectors	Field trial diagram, variance analysis table	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
	2 Theoretica	A6: Full random design	Design advantages and disadvantages, full random design in case of equal redundancy	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
6	3 Practical	A6:Design of complete random sectors	Sports exercises in the design of random sectors	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
	2 Theoretica	A7: Full random design	Full random design in case of uneven redundancy	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
7	3 Practical	A7: Latin square design	Field trial diagram, variance analysis table	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
	2 Theoretica	A8 : Design of complete randomized sectors	Design Advantages and Disadvantages, Variance Analysis in the Design of Full Random Sectors	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
8	3 Practical	B1 : Latin Square Design	Exercises in Latin Square Design	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
9	2 Theoretica	A9: Relative efficiency of full informal sector design	Relative efficiency, estimating missing data	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
	3 Practical	B2 : Field visit to the nursery	Carrying out field experiment diagrams for	Interactive lecture, brainstorming,	- A midterm? Laboratory

			the complete randomized design , Sectors , Latin	dialogue and discussion, self- learning,	test
	2 Theoretica	A10 : Latin Square Design	Design Advantages and Disadvantages, Variance Analysis in Latin Square Design	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
10	3 Practical	B3 : Multiple comparisons	Method of testing the lowest moral teams with the solution of sports exercises	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
	2 Theoretica	All: Relative efficiency of Latin square design	Relative efficiency, missing values	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
11	3 Practical	B4 : Multiple comparisons	Duncan Test Method with Exercise Solution	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
	2 Theoretica	B1 : Multiple comparisons	Lowest Moral Difference Test, Duncan Test	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
12	3 Practical	A8 : Factorial experiments with two factors in full randomized design	Workout Solution	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
13	2 Theoretica	A12 : Factorial experiments	Advantages and Disadvantages of Factorial Trials, a Two-Factor Experience in Complete Randomized Design	Interactive lecture, brainstorming, dialogue and discussion, self- learning	- A midterm? A final test
13	3 Practical	A9: Factor experiments with two workers in the design of complete randomized sectors	Workout Solution	Interactive lecture, brainstorming, dialogue and discussion, self- learning, laboratory training	- A midterm? Laboratory test
14	2 Theoretica	A13 : Factorial experiments	A two-factor experiment in the design of complete randomized sectors	Interactive lecture, brainstorming, dialogue and	A midterm? A final test

			A STATE OF THE STA	discussion, self-	
				learning	
				Interactive lecture.	
		A10: Factorial		brainstorming,	
		Experiments with Two	Washaat Calatian		- A midterr
	3 Practical		Workout Solution	dialogue and	Laborator
		Factors in the Design		discussion, self-	test
		of the Latin Square		learning,	test
				laboratory training	
				Interactive lecture,	
	2	A14: Factorial	A T F .	brainstorming,	
			A Two-Factor Experience		- A midtern
	Theoretica	experiments	in Latin Square Design	dialogue and	A final tes
	I			discussion, self-	
				learning	
15				Interactive lecture,	
				brainstorming,	- A midtern
		D. 6. D'. 1.1	Conducting field plans for		Laboratory
	3 Practical	B5: Field visit to the	Conducting field plans for	dialogue and	test
		nursery	laboratory experiments	discussion, self-	
				learning,	
				laboratory training	
11 Course	⊥ e Evaluatio	ı			
This	evaluation i		Calendar Appointment (Degree	Relative
service	Cvardation	nethous	Week)	Degree	
allows			Weekj		Weight%
customers					
to issue a					
permit					
1	Report I		Week 4	2.5	2.5
2		port - %1 - %2	Week 5	2.5	2.5
3	Quiz (1)	port 701 702	Week 6	2	
4		mic Translation)	Week 4	2	2
5	Quiz (3)	inc translation)	Week 5	1	
6	- A midterm	.2			1
7	- A midterm		Week 6	7.5	7.5
			Week 11	7.5	7.5
8	Final theore		senior year	40	40
9		eld Drawing	Week 5	5	5
10		assessment	Week 3	2	2
11	Practical Qu		Week 1	1	1
12	Practical Qu		Week 4	0.5	0.5
13	Practical Qu	3 ()	Week 4	1	1
14	Direct Draw	vings and Homework	Weeks 6, 8,9,10,11,12 and13	5.5	5.5
15	Final Practical Test		senior year	20	20
	Total		100	100%	100%
12 Learni	ng and Tea	aching Resources			
Required te	extbooks (m	ethodology if any)	Design and analysis of a		nents – Dr.
			Khasha Mahmoud Al-R	عدة الموصل - 1980 علم awi - 1980	ماء جاء
			Design and analysis of exper	ناعة والغالات	ا كلية ال
Van Dar			T DESIRE AND ADAIVSIS OF EXPE	iments – Dr. Wonami	nea
Key Refere	nces (Sourc	ces)			A l
Key Refere	nces (Sourc	ces)	Mohammed Al-Taher Al-Ima		
Key Refere	ences (Sourc	ces)			

Recommended	supporting	books	and
references (scier	ntific journals,	reports)
E-References,	Websites		

Theoretical subject teacher Prof. Dr. Omar Muzaffar Omar

President of the Scientific Committee Prof.Dr.Mohammed Younis Salim Al-Allaf Practical Instructor
Eng. Munther Younis Mohammed

Head of Forest Science Department Prof. Dr. Muzahim Saeed Younis