

Republic of Iraq

The Ministry Of Higher  
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Soil Sci. & Water  
Resources

Stage: 3<sup>st</sup>

Lecturer name: Nazar S. Ali

Qualification: PhD.

Place of work: Coll. Of Agriculture

## Flow up of implementation celli pass play (Design and analysis of experiments)

Course Instructor	Nazar S. Ali				
E-mail	nazaralzUhairy@uodiyala.edu.iq				
Title	Design and analysis of experiments				
Course Coordinator	First Course				
Course Objective	Teaching students the concepts of designing and analyzing experiments and their applications in agricultural experiments				
Course Description	Definition of the concepts of experimental design and analysis, completely randomized design, completely randomized block design, Latin square design, factorial experiments of all kinds, split-plot design, split-block design, correlation and linear regression.				
Textbook	Al-Rawi, Khashi Mahmoud and Abdul Aziz Muhammad Khalaf 2000, Design and Analysis of Agricultural Experiments. Dar Al-Kutub for Printing and Publishing - University of Mosul.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(20%)	(15%)	(5%)		(60%)

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## Course weekly Outline

week	Date	Topics Covered	Practical Part
1	21-9-2023	statistics review	Solve exercises to review statistics
2	28-9-2023	Basic rules for designing experiments - the basic elements of designing experiments (estimating experimental error, controlling experimental error, interpreting results)	Power point
3	4-10-2023	Definitions and concepts of terms in experimental design	Power point
4	11-10-2023	complete random design	Giving practical exercises and solving exercises for completely randomized design (and applications of the solution on the computer)
5	18-10-2023	Randomized complete block design	Giving practical exercises and solving exercises for random complete block design (and applications of the solution on the computer)
6	25-10-2023	Latin square design	Giving practical exercises and solving exercises for Latin square design (and applications of the solution on the computer)
7	1-11-2023	Factorial For experiments (completely randomized design)	Solving exercises on factorial experiments (completely randomized design) (and applications of the solution on the computer)
8	8-11-2023	Factorial For experiments (Randomized complete block design)	Solving exercises on factorial experiments (Randomized complete block design) (and applications of the solution on the computer)
9	15-11-2023	Factorial For experiments (Latin square design)	Solving exercises on factorial experiments (Latin square design) (and applications of the solution on the computer)
10	22-11-2023	Designs with a split-plot system	Solving exercises on (Designs with a split-plot system) (and applications of the solution on the computer)
11	29-11-2023	split-Block system	Solving exercises on (split-Block system) (and applications of the solution on the computer)
12	6-12-2023	Designs with a split split plot system	Solving exercises on (Designs with a split split plot system) (and applications of the solution on the computer)
13	13-12-2023	Correlation and linear regression	Solving exercises on (correlation and linear regression) (and applications of the solution on the computer)
14	20-12-2023	Correlation and linear regression	Solving exercises on (correlation and linear regression) (and applications of the solution on the computer)

15	27-12-2023	General Review	General Review
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**2025**



**Instructor Signature:**  
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