



Course Weekly Outline

Course Instructor	Khalid Hamid Hassan				
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Title	Experimental designs and analysis .				
Course Coordinator	First Course				
Course Objective	Teaching and training students on the principles of experimental design , various experimental designs and analysis .				
Course Description	General principles of experimental designs, and describe the procedures for analysis of variance in various experimental designs.				
Textbook	Al-Rawi, K. M. 1980 . Agricultural Experimental Design and Analysis .Mousl Univ. Press . Iraq. Fadhil, M. H. and Muiyyad A. Al- Yunis .2000. Agricultural Experimentation Design and Analysis. Univ. of Baghdad . Iraq .				
References	Morris, T. R. 2002 . Experimental design and analysis in animal sciences. CABI Publishing .UK. Mason, R. L. , R. F. Gunst and J. L. Hess. 2003 . Statistical design and analysis of experiments with applications to engineering and sciences. 2nd Ed. John Wiley & Sons Publication Inc. Canada . Dean, A. M. and D. Voss . 1999. Design and analysis of experiments .Springer. NewYork. Many other references and article from internet .				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (30%)		As (10%)	----	As (60%)
General Notes					

Course weekly Outline

week	Date	Topics Covered	Practical Part
1		Definition of terms and phenomena dealing with Experiment , Design , Analysis .	General Review for statistical principles and measurements .
2		Completely Randomized Design . Equal replications	Examples about CRD analysis Equal replications
3		Completely Randomized Design . unequal replications.	Examples about CRD analysis unequal replications.
4		Post analysis tests , Least significant Differences , Duncan s test , Revised LSD.	Examples about Post analysis tests
5		Randomized Completely Block Design , One observation for each treatment.	Examples about RCBD analysis One observation for each treatment.
6		Randomized Completely Block Design , Two or more observations for each treatment.	Examples about RCBD analysis two or more observations for each treatment.
7		Latin Square Design	Examples about Latin Square Design
8		Factorial Experiment in Completely Randomized Design .	Examples about Factorial Experiment in Completely Randomized Design .
9		Factorial Experiment in Randomized Completely Block Design.	Examples about Factorial Experiment in Randomized Completely Block Design.
10		Nested Experimental Design .	Examples about Nested Experimental Design .
11		Split Plot Design in Completely Randomized Design .	Examples about Split Plot Design in Completely Randomized Design .
12		Split Plot Design in Randomized Completely Block Design.	Examples about Split Plot Design in Randomized Completely Block Design.
13		Split- Split Plot Design	Examples about Split- Split Plot Design
14		Covariance Analysis	Examples about Covariance Analysis
15		General Review	General Review

Instructor Signature:

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