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**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**

**University:** Diyala

**College:** Agriculture

**Department:** Science Crop field **Stage:first**

**Lecturer name:** **Ali Ghedan Zaidan**

**Academic Status:** Prof Assistant

**Qualification:** : Phd

**Place of work:** Department of Science Crop field

 **Course Weekly Outline**

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| **Course Instructor** | **Ali Ghedan Zaidan**  |
| **E-mail** | [**www.ali.ghedan**](http://www.ali.ghedan)**@yahoo.com** |
| **Title** | Principles of statistics |
| **Course Coordinator** | **spring** |
| **Course Objective** | Introducing the student to the concept and basics of statistics, and how it can be used in scientific fields, including medical, agricultural, economic, social, and other sciences, and providing the student with all knowledge and information related to statistical measurement in the field of experiments, research, and scientific studies. |
| **Course Description** | The concept of statistics, the stages of its application and its types, the objectives of statistics, the study of the statistical population, the variables and their types, the sources of data collection and how to analyze them, the method of presenting statistical data, as well as the measures of central tendency, including the arithmetic mean, the mode, and others, and the measures of dispersion and difference, including variance, standard deviation, and mean, as well as correlation analysis, its nuclei, the measure of its calculation, and how to benefit from it in The subject of experiments and research, as well as regression analysis, the field of application and benefit from it in the field of forecasting, as well as knowledge of the application of the statistical model, analysis of variance, probability, and statistical tests that are of interest to scientific studies and research. |
| **Textbook** | Al-Rawi, Khashi’, Introduction to Statistics (1986), Dar Al-Kutub for Printing and Publishing, University of Mosul |
| **References** |  |
| **Course Assessment** | Course  | Course |  | Final Exam  | Final Degree |
| Month FirstMonth second | 40% |  | 60% | 100% |
| **General Notes** |  |

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**University:**

**College:**

**Department:**

**Stage:**

**Lecturer name:**

**Academic Status:**

**Qualification:**

**Place of work:**

**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**

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**Course weekly Outline**

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| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** | **17/2** | Basics of statistics | Definitions of statistical terms |  |
| **2** | **24/2** | Statistical symbols | Examples of statistical symbols |  |
| **3** | **3/3** | Display and summarize statistical data | Practical examples of types of graphical displays |  |
| **4** | **10/3** | Frequency distribution tables | Examples of frequency distribution tables |  |
| **5** | **17/3** | Measures of central tendency | Examples of concentration metrics |  |
| **6** | **24/3** | Measures of dispersion and dissimilarity | Examples of measures of dispersion |  |
| **7** | **31/3** | Correlation, its types and measurement | Applications and examples of correlation |  |
| **8** | **7/4** | Regression, its types and measurement | Applications and examples of regression |  |
| **9** | **14/4** | Analysis of variance table | Applications and examples of the variance table |  |
| **10** | **21/4** | Normal distribution and probability distributions | Examples of normal distribution and calculating areas under the normal curve |  |
| **11** | **28/4** | Hypothesis testing statistical errors | Examples of hypothesis testing statistical errors |  |
| **12** |  | Hypothesis testing and t, f and z distribution | Applications on testing and distributing t, f, z |  |
| **13** |  | f distribution Hypothesis testing - f | Applications on the f distribution and hypothesis testing - f |  |
| **14** |  | Chi-square test | Applications of chi-square test |  |
| **15** |  |  |  |  |
| **16** |  |  |  |  |
| **Half-year Break** |
| **17** |  |  |  |  |
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 **Instructor Signature: Dean Signature:**