

Department of statistics and information

College of.Administration and Economics.

University of … Salahaddin.

Subject: DATA ANALYSIS PROGRAMMS

Course Book :  *FOUR CLASSES*

Lecturer'sname: FATIMAH OTHMAN HAMA RASOOL

Academic Year: 2022– 2023

Course Book

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| 1. Course name | Data Analysis program  |
| 2. Lecturer in charge | Fatimah Othman Hamarasool |
| 3. Department/ College | Department of statistics and information / College of Administration and Economics. |
| 4. Contact | e-mail: fatimah.hamarasool@Su.edu.krdTel: 07504646530  |
| 5. Time (in hours) per week  | For example Theory: 6 hours Practical: 3  |
| 6. Office hours |  |
| 7. Course code |  |
| 8. Teacher's academic profile  |  I graduated from salahaddin university – hawler in 2002 college of administration & economics \ statistics department from 2003 until 2010 worked Assistant Researcher in statistics department . In 2010 I obtained a master's degree in the Department of Statistics college of Administration and Economy, University of Salahaddin and through the(2010-2011 ) studied students second stage of advanced statistics and in the years ( 2012-2013\2013-2014 \2014 - 2015 -2-16 – 2017) I studied the first stage students Principles of Statistics at the Department of economics department in (2018 -2019 -2020 -2021-2022-2023)I studied data analysis programs at four stage at the department of statistics and information and through these years supervised Research on the graduation for students of the fourth stage in the Department of Statistics, and, so far, I am working as a teacher in the Department of Statistics. |
| 9. Keywords | Regression – stepwise – logistic regression – multi regression – non linear regression – ANOVA - MANOVA |
| 10. Course overview:  statistics is an attractive and useful subject , every time you open a website newspaper read and article or listen to a new report you can find examples of statistics in your every day world . most students find elementary of statistics subject very interesting and are pleasantly surprised at how different it is from other courses from this perspective, the importance of material applications on the computer (data analysis) Important and advanced tool for conducting statistical necessary analysis to analyze scientific research data and the attention to the Applied Sciences Statistical particularly in the field of Scientific research where it occupies the subject of great importance in many statistical . economics , medical and social research  |
| 11. Course objective:The general purpose of this course is to study the basic concepts of Statistical analysis and it can be summarized in the following points chorus goals:1. Teach students how to collect data on the subject of the research and design of the questionnaire forms.2. Dealing with the data and the definition of variables and data entry.3. Educated remittance data and format for statistical analysis (Transform Data).4. Learning Data analysis.5. Learning Interpreting Output. |
| 12. Student's obligationStudents are expected to: Follow university policies when attending class and lab, and taking quizzes and exams. Bring stationery to class. Bring scientific calculator and laptop to class. Be on time to class! Student should be proud of the work that he/she do in this class. Do not allow someone else to copy your homework and do not provide answers to quizzes or tests. If this does occur, credit will be lost and a referral will be written.  |
| 13. Forms of teachingDifferent forms of teaching will be used to reach the objectives of the course: power point presentations for the head titles, definitions and summary of conclusion, classification of material and any other illustrations. There will be classroom discussions and the lecture will give enough background to translate, analyse, and interpretation result. . |
| 14. Assessment schemeThe students are obliged to perform at least four closed book exams (theoretical and practical) during the academic year. The exam has 40%, besides homework and classroom activities, The other 60% will be reserved for the final exam. Therefore, the final grade will be based upon the following criteria:homework and interactive activities: 10%Exams (theoretical and practical) 30% (15% and 15%)Final Exam: 60% (35% theoretical ,25% practical) |
| 15. Student learning outcome: During the study period of BSc , there will be good opportunities for students who had this course to engags in part time works in many companies and organizations as data collectors , data entries , data presenters and analysers . therefore , it is very important to have all the subjects which are pretended to take in this course . in another hand . without taking this course , students could not have good understanding for the subjects of the next years.Students will have good knowledge about the philosophy of statistics and how to merge between statistical methods and real life . in other words , students can do something with any data that they receive it  |
| 16. Course Reading List and References‌:1. Perry, Brownlow, McMurray & Bob Cozens (2005):" Explained SPSS"This edition published in the Taylor and Francis e-Library, USA.2. Sheridan J. Coakes (2014) “SPSS Version 20.0 for Windows :Analysis without Anguish with SPSS V20” Willy, ISBN: 978-1-118-33776-9. 296 pages.UK.1. التحليل الإحصائي الأساسي باستخدام SPSS , د.محفوظ جودة , جامعة العلوم التطبيقية , الطبعة الأولى , 2008
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| 17. The Topics: | Lecturer's name: |
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| Week 1 | Regression model /MULTI collinearity |
| Week 2  | General linear model . univariate |
| Week 3 |  General linear model -multivariate |
| Week 4  | Repeat measures |
| Week 5  | Analysis of Covariance |
| Week 6 | Stepwise multiple regression |
| Week 7 | hierarchical multiple regression |
| Week 8 | Regression curve estimation |
| Week 9  | logistic regression |
| Week 10  | multinomial logistic regression |
| Week 11 | Ordinal logistic |
| Week 12  | Non linear regression |
| Week 13 | Non-parametric test |
| Week 14  | Factor Analysis  |

 | Fatimah Othman ex: (3 hrs) |
| 18. Practical Topics (If there is any) |  |
| In this section The lecturer shall write titles of all practical topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture . |  |
| 19. Examinations: Explain result  |
| 20. Extra notes: |
| 21. Peer review پێداچوونه‌وه‌ی هاوه‌ڵ .‌‌  |