Course outline

STAT 328 (Statistical Packages) 3 credit hours

Instructor: **Prof. Khalaf S. Sultan**

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Text Books:

1. Minitab Guide, Second Edition Desmond J. Higham and Nicholas J. Higham A-Jin Publishing Company. Latest version
2. Excel 2010 guide to accompany understanding basic statistics sixth edition
3. SPSS Guide to Data Analysis by Marija Norse's. . Latest version
4. Hector Guerrero. Excel Data Analysis: Modeling and Simulation, Springer. . Latest version
5. SPSS Survival Manual: A Step by Step Guide to Data Analysis Using IBM Spss. Latest version
6. Alain F. Zuur l Elena N. Ieno Erik H.W.G. Meesters. A Beginner's Guide to R, Springer. Latest version

Course Scope Contents:

Using program code in a statistical software package (Excel – Minitab – SAS – SPSS - R) to write a program for data and statistical analysis. Topics include creating and managing data files, graphical presentation - and Monte Carlo simulations.

Date	Topics Covered
20/1/2020	Introduction to statistical analysis using excel Some mathematical functions in Excel
27/1/2020	Statistical and logical functions in excel
3/2/2020	Descriptive statistics using excel
10/2/2020	Statistical tests using excel
17/2/2020	Correlation and regression using excel Introduction to Minitab
24/2/2020	Descriptive statistics using Minitab
2/3/2020	Statistical distributions in Minitab
	5/3/2020 Mid-1 Exam
9/3/2020	Statistical tests using Minitab

16/3/2020	Correlation and regression using Minitab Introduction to SPSS
23/3/2020	Descriptive statistics using SPSS
30/3/2020	Statistical tests using SPSS Correlation and regression using SPSS
	2/4/2020 Mid-2 Exam
6/4/2020	Introduction to R Statistical and mathematical functions in R
13/4/2020	Descriptive statistics using R Statistical distributions in R
20/4/2020	Statistical tests using R Correlation and regression using R
27/4/2020	Applications, Programming and simulation in R
Final exam :	

Assignments and Tests:

Assignments and Labs	Will be given during the classes	10 marks
Midterm test I	Thursday, 5/3/2020 (17/7/1441), 7:00-8:30PM	25 marks
Midterm test II	Thursday, 2/4/2020 (16/8/1441), 7:00-8:30PM	25 marks
Final Exam		40 marks

Attendance:

Student missing more than 25% of the total class hours won't be allowed to write the final exam.