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:

simulations.

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

Week	Topics Covered			
1	Introduction to statistical analysis using excel			
	Some mathematical, statistical and logical functions in excel			
	Descriptive statistics using excel			
2	Statistical tests using excel			
	Correlation and regression using excel			
	Introduction to Minitab- Descriptive statistics using Minitab			
3	Statistical distributions in Minitab			
	Statistical tests using Minitab			
Exam				
4	Correlation and regression using Minitab			
	Introduction to SPSS			
_	Descriptive statistics using SPSS			

5	Statistical tests using SPSS			
	Correlation and regression using SPSS			
	Introduction to R			
6	Statistical and mathematical functions in R			
	Descriptive statistics using R			
	Statistical distributions in R			
Exam				
7	Statistical tests using R			
	Correlation and regression using R			
	Programming and simulation in R			
	Final exam :			

Assignments and Tests:

Assignments and Labs	Will be given during the classes	10 marks
Midterm test I		25 marks
Midterm test II		25 marks
Final Exam	Final exam :)	40 marks

Attendance:

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