

Course outline

STAT 328 (Statistical Packages) 3 credit hours

Instructor: Prof. Khalaf S. Sultan

Office: 2B20 Building #4, Phone (office): 4676263

Room: AB 126 Building #4

E-mail: ksultan@ksu.edu.sa

Text Books:

1. Minitab Guide, Second Edition Desmond J. Higham and Nicholas J. Higham A-Jin Publishing Company. Latest version
2. SPSS Guide to Data Analysis by Marija Norse's. . Latest version
3. Hector Guerrero. Excel Data Analysis: Modeling and Simulation, Springer. . Latest version
4. SPSS Survival Manual: A Step by Step Guide to Data Analysis Using IBM Spss. Latest version
5. Alain F. Zuur I 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 – SPSS - R) to write a program for data and statistical analysis. Topics include creating and managing data files, graphical presentation - and Monte Carlo simulations.

Week	Date	Topics Covered
1	2/9/2018	Introduction to statistical analysis using excel
2	16/9	Some mathematical, statistical and logical functions in excel
3	12/9	Descriptive statistics using excel
4	23/9	Statistical tests using excel
5	30/9	Correlation and regression using excel
6	7/10	Introduction to Minitab- Descriptive statistics using Minitab
7	14/10	Statistical distributions in Minitab
8	21/10	Statistical tests using Minitab
		Correlation and regression using Minitab
9	4/11	Introduction to SPSS
10	11/11	Descriptive statistics using SPSS
11	18/11	Statistical tests using SPSS
		Correlation and regression using SPSS
12	25/11	Introduction to R
		Statistical and mathematical functions in R

		Descriptive statistics using R
13	2/12	Statistical distributions in R
14	9/12	Statistical tests using R
15	16/12	Correlation and regression using R
		Programming and simulation in R

Assignments and Tests:

Assignments and Labs	Will be given during the classes	10 marks
Midterm test I	Thursday 9/2/1440H (5:00 - 6:30pm)	25 marks
Midterm test II	Thursday 7/3/1440H (5:00 - 6:30pm)	25 marks
Final Exam	Final exam : Tuesday 11/4/1440 (1:00-4:00pm)	40 marks

Attendance:

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