

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. SPSS Guide to Data Analysis by Marija Norusis. . 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 I 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 - Maple - Matlab) 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	26/12/1438	Introduction to statistical analysis using excel
2	4/1/1439	Some mathematical, statistical and logical functions in excel
3	11/1/1439	Descriptive statistics using excel
4	18/1/1439	Statistical tests using excel
5	25/1/1439	Correlation and regression using excel
6	2/2/1439	Introduction to Minitab- Descriptive statistics using Minitab
7	9/2/1439	Statistical distributions in Minitab
8	16/2/1439	Statistical tests using Minitab
		Correlation and regression using Minitab
Mid-1 exam 18/2/1439 Tuesday, 7:00- 8:30 pm		
9	23/2/1439	Introduction to SPSS
10	1/3/1439	Descriptive statistics using SPSS
11	8/3/1439	Statistical tests using SPSS
12	15/3/1439	Correlation and regression using SPSS

13	22/3/1439	Introduction to R
		Statistical and mathematical functions in R
		Descriptive statistics using R
Mid-2 exam 24/3/1439 Tuesday, 7:00- 8:30 pm		
14	29/3/1439	Statistical distributions in R
		Statistical tests using R
15	6/4/1439	Correlation and regression using R
		Programming and simulation in R
Final exam 15/4/1439 Tuesday, 1:00- 4:00 pm		

Assignments and Tests:

Assignments and Labs	Will be given during the classes	10 marks
Midterm test I	Mid-1 exam 18/2/1439 Tuesday, 7:00- 8:30 pm	25 marks
Midterm test II	Mid-2 exam 24/3/1439 Tuesday, 7:00- 8:30 pm	25 marks
Final Exam	Final exam 15/4/1439 Tuesday, 1:00- 4:00 pm	40 marks

Attendance:

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