**Department of Statistics & Operation Research-King Saud University**

**Second Semester- 1446/2025**

 **Stat 382**

**Statistical Packages**

 **Instructor: Sana Abunasrah**

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**Office hours:** Sunday : 12:00-1:00 PM.

 Monday: 3 - 4 PM.

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**Course Timeline**

|  |  |
| --- | --- |
| **Week** | **Title** |
| **W2** | Introduction to statistical analysis using Excel |
| **W2** | Some mathematical, statistical and logical functions in Excel |
| **W2** | Descriptive statistics using Excel |
| **W3** | Statistical test using Excel |
| **W4** |  Correlation and Regression using Excel  |
| **W4** | Matrices and Some statistical charts in Excel |
| **W5** | Introduction to Minitab - Descriptive statistics using Minitab |
| **W5** | Statistical distribution in Minitab  |
| **W6** | Statistical test in Minitab  |
| **W7** |  Correlation and Regression using Minitab  |
| **W8** | Introduction to R  |
| **W8** |  Statistical and mathematical functions in R |
| **W9** | Descriptive statistics in R |
| **W10** | Statistical test in R |
| **W11** |  Correlation and Regression in R  |
| **W12** | Introduction to SPSS |
| **W12** | Descriptive statistics using SPSS |
| **W13** | Statistical test using SPSS |
| **W13** |  Correlation and Regression using SPSS  |
|  | **Final Exame, Wednesday 23-11-1446H at 8:00 AM** |

**Grading policy:**

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| **Midterm 1** | 25 Marks | 1.5 hours | Week 8: **Monday** 24-2-2025**(25-8-1446H) at 1:00 PM** |
| **Midterm 2** | 25 Marks | 1.5 hours | Week13**: Monday** 21-4-2025**(23-10-1446H) at 1:00 PM** |
| **Final Test:** | 40 Marks | 3 hours | Wednesday **(23-11-1446H) at 8:00 AM** |
| **Lab and Quiz:** | 10 Marks | - | **-** |

**Required text Books:**

* Hector Guerrero. [Excel Data Analysis: Modeling and Simulation](http://gigapedia.com/items%3Aview?eid=PSzlbSN0CmvClEeThfk6Xhg4yelZo0WIMtfMb9Bg%2BBo%3D),  Springer. . Latest version
* Minitab Guide, Second Edition Desmond J. Higham and Nicholas J. Higham A-Jin Publishing Company. Latest version
* Alain F. Zuur l Elena N. Ieno Erik H.W.G. Meesters. A Beginner’s Guide to R, Springer. Latest version
* SPSS Survival Manual: A Step by Step Guide to Data Analysis Using IBM Spss. Latest version
* SPSS Guide to Data Analysis by MarijaNorse’s. . Latest version

**Programming:**

* + - Excel
		- Minitab
		- R language
		- SPSS

**Attendance:**

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

**Important Dates:**

Last day to drop the course: 1/5/2025 [ 3-11-1446H ]