Course program and reading list
Semester 1 Year 2023

School: Arison School of Business B.A

Statistics and Data Analysis I

Lecturer:

Mr. Hever Schulberg  hevers@runi.ac.il

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Course No.:  Course Type:  Weekly Hours:  Credit:
2316              Lecture               4                     6

Course Requirements:  Group Code:  Language:
Final Exam  231231601  English

Prerequisites

Students who took one of the courses listed below will not be allowed to register to the course Statistics and Data Analysis I (2316):

27 - Statistics I
27 - Statistics I
2096 - Statistics I for Accounting
2304 - Quantitative Methods in finance
8910 - Introduction To Statistics A
9009 - Statistics I for Economics

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Course Description

- Descriptive statistics
  - Tabular & graphical description of data (bar diagrams, histograms)
  - Measures of location (mean, median, mode)
- Percentiles
- Measures of dispersion (range, variance, standard deviation).
- Standard scores

- **Probability**
  - Probability spaces, probability calculation using Venn diagrams
  - Symmetric sample spaces

- **Conditional probability**
  - Bayes’ formula, product law, independent events

- **Random variables**
  - General properties
  - Special distributions (uniform, binomial, geometric, normal)
  - Expectation and variance

- **Sampling Distribution**
  - Law of large numbers
  - Central limit theorem

- **Estimation**
  - Point estimation
  - Confidence intervals

- **Hypothesis Testing**

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**Course Goals**

Understand basic methods for describing, summarizing, and interpreting data.
Grading

You must turn in 4 excel exercises in order to be eligible to take the final exam. **No exceptions will be made for any reason. No extensions will be granted for any reason.**

In addition, a homework assignment will be posted once a week. You do **not** need to turn it in at any time. However, past experience shows that students who do not consistently complete every homework assignment are unlikely to pass the final exam.

The final course grade will be based entirely on the final exam grade.

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Lecturer Office Hours

By appointment

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Reading List

There is no formal reading list.