

Introduction to Statistics

Course description

The course "Introduction to Statistics" provides students with a comprehensive overview of fundamental statistical principles and tools. Central tendency metrics, dispersion analysis, hypothesis testing and graphs creation and interpretation are tools that allow students to describe and compare data behaviors, identify desirable and undesirable conditions related with the process or data collection procedure. Appropriate data description and analysis are the first step in many mayors decision-making processes in the Medical Devices Industry, consequently, it becomes crucial knowledge for engineers in the industry. This course is given with the support of software traditionally used in this industry and based on application cases.

At the end of the course you will able to:

- Know main concepts required for data collection and statistical analysis.
- Use and interpret descriptive metrics such as mean, mode, median, variance, standard deviation, quartile, percentile, and range.
- Use of graphs to describe and rationalize data behaviors.
- Recognize the graphs that are better fit to use under different situations.
- Use graphs to recognize suspicious data behaviors or data collection mistakes that could affect the data credibility, for instance outliers, data from mixed populations, truncated data or rounding problems.
- Identify if a sample mean is statistically similar or not to a reference value through hypothesis testing.
- Make decisions through the interpretation of data from applied examples.

Main topics

- 1 Introduction to statistics and basic concepts.
- 2 Descriptive Statistics.
- 3 Commonly used graph for data analysis.

Contact

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Course features

Instructor Led 🙎



Duration: 4 hours



Tools and templates



Simulated learning



Course certification

