COURSE DETAIL

STATISTICS
Country Italy
Host Institution University of Commerce Luigi Bocconi
Program(s) Bocconi University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Mathematics
UCEAP Course Number 108
UCEAP Course Suffix
UCEAP Official Title STATISTICS
UCEAP Transcript Title STATISTICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course aims at providing the basic theoretical and applied tools for a rigorous statistical analysis. Specifically, the course focuses on techniques to summarize and visualize data of different types and their possible relations, as well as on basic sampling and inferential procedures, and on the assessment of the risk associated to extrapolation and inference. In particular, students learn how to extract information from data and how to assess the reliability of such information. The course covers the following topics: collection, management, and summary of data using frequency distributions, graphical representations, and summaries; study of the relationship between two variables; statistical inference and sampling variability; theory of point estimation and confidence intervals; hypothesis testing; and simple and multiple regression models. All the descriptive and inferential tools introduced during the course are applied to data using the statistical software R - and in particular the integrated development environment (IDE) RStudio. Prerequisites: understanding of the concepts of probability theory and random variables.

Language(s) of Instruction
English

Host Institution Course Number
30001

Host Institution Course Title
STATISTICS

Host Institution Course Details
https://didattica.unibocconi.it/ts/tsn_anteprima.php?cod_ins=30001&anno=2021&ri...

Host Institution Campus
Bocconi University

Host Institution Faculty

Host Institution Degree
Host Institution Department Decision Sciences
Course Last Reviewed 2023-2024

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