UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Data Science: Analysis II - Advanced Statistics

2223-1002-3

Title

CLINICAL DATA SCIENCE: ANALYSIS II - ADVANCED STATISTICS

Teacher(s)

- Aldo Solari
- Paola Rancoita
- Chiara Brombin
- Stefano Vezzoli
- Bernardo Nipoti
- Davide Bernasconi
- Laura Antolini
- Maria Grazia Valsecchi
- Paola Rebora

Language

English

Short description

COURSE OBJECTIVES

To develop statistical skills and knowledge for the analysis and interpretation of studies through advanced statistical methods used in clinical trials.

MAIN TOPICS

- Multiple testing – 2h - Aldo Solari
- Principles of regression and specific models for the analysis of binary and continuous data – 14 h - Paola Rancoita and Chiara Brombin
- Missing data – 2h - Stefano Vezzoli
- Bayesian Analysis – 8h - Bernardo Nipoti
- Introduction to R software - 16h - Davide Bernasconi (in presence)
- Survival analysis to be defined - 14h - Laura Antolini, Maria Grazia Valsecchi, Paola Rebora (in presence)

CFU / Hours

8/64

Teaching period

- May 18th (2h) 17.00-19.00 Solari - Streaming
- May 20th (2h) 17.00-19.00 Rancoita - Streaming
- May 21st (4h) 9.00-13.00 Rancoita - Streaming
- May 27th (2h) 17.00-19.00 Brombin - Streaming
- May 28th (4h) 9.00-13.00 Brombin - Streaming
- June 8th (2h) 17.00-19.00 Vezzoli - Streaming
- June 15th (2h) 17.00-19.00 Nipoti - Streaming
- June 17th (2h) 17.00-19.00 Nipoti - Streaming
- June 18th (4h) 9.00-13.00 Nipoti - Streaming
- June 27th (8h) 9.00-17.00 (in presence) Bernasconi
- June 28th (8h) 9.00-17.00 (in presence) Bernasconi
- June 29th (8h) 9.00-17.00 (in presence) Antolini
- June 30th (8h) 9.00-17.00 (in presence) Valsecchi
- July 1st (8h) 9.00-17.00 (in presence) Rebora

Sustainable Development Goals