UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Clinical Data Science: Advanced Statistics I

2324-1002-02

Title

Clinical Data Science: Advanced Statistics I

Teacher(s)

- Laura Antolini
- Paola Rancoita
- Stefania Galimberti
- Chiara Brombin
- Federico Ambrogi
- Bernardo Nipoti
- Stefano Vezzoli

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 and observational studies.

TOPICS
Analysis of Variance (ANOVA) – 2h Laura Antolini
Principles of regression and models for continuous data – 6h Paola Rancoita
Effect measures with binary endpoints – 2h Stefania Galimberti
Regression models for binary response – 6h Chiara Brombin
Variable selection – 2h Federico Ambrogi
Prediction models – 2h Federico Ambrogi
Bayesian Analysis – 8h Bernardo Nipoti
Missing data – 4h Stefano Vezzoli

CFU / Hours

4 / 32

Teaching period

May 13th 9.00-11.00 Laura Antolini - PRE-RECORDED VIDEO
May 13th 11.00-13.00 Paola Rancoita - STREAMING
May 15th 17.00-19.00 Paola Rancoita - STREAMING
May 19th 17.00-19.00 Paola Rancoita - STREAMING
May 20th 9.00-11.00 Stefania Galimberti - STREAMING
May 23rd 17.00-19.00 Chiara Brombin - STREAMING
May 24th 17.00-19.00 Chiara Brombin - STREAMING
May 26th 17.00-19.00 Chiara Brombin - STREAMING
May 27th 9.00-11.00 Federico Ambrogi - PRE-RECORDED VIDEO
May 27th 11.00-13.00 Federico Ambrogi - PRE-RECORDED VIDEO (11.00-12.00) + STREAMING (12.00-13.00)
June 7th 17.00-19.00 Bernardo Nipoti - STREAMING
June 9th 17.00-19.00 Bernardo Nipoti - STREAMING
June 10th 9.00-13.00 Bernardo Nipoti - STREAMING
June 16th 17.00-19.00 Stefano Vezzoli - STREAMING
June 19th 17.00-19.00 Stefano Vezzoli - STREAMING

COURSE EVALUATION: June 23rd 18.00-19.00

Sustainable Development Goals