UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Research Informatics

2627-1-K0102D001-K0102D00104

Aims

The course aims to provide students with basic knowledge and skills for the appropriate organization and management of healthcare research data, with particular attention to dataset structure, data quality, traceability, and reproducibility.

Contents

Theoretical and practical principles for structuring, documenting, and checking research data. Variables and coding, identifiers, missing values, data dictionaries, data quality, and appropriate use of software tools for data management.

Detailed program

Fundamental principles of research data management. Dataset structure and organization, data types and formats, variable coding and documentation. Data quality, validation, and data cleaning. Traceability and reproducibility of data transformations. Practical exercises using software tools.

Prerequisites

None.

Teaching form

2 Interactive lectures of 4 hours and practical exercises based on cases and datasets.

Textbook and teaching resource

Materials, datasets, and exercises provided by the teacher.

Semester

First year, first semester.

Assessment method

Open-ended questions (with exercises) and/or closed-ended tests (with multiple choice choices).

Office hours

By appointment, arranged via email with the teacher.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION