

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

# **COURSE SYLLABUS**

# **Clinical Decision Support Systems**

2324-3-H4102D045

#### **Aims**

To know and understand the clnical decision support systems from the physician's point of view, with particular reference to a critical analysis of the assumptions and the used data.

#### **Contents**

- 1. underlying principles of decision support systems in medicine
- 2. analysis of real systems from the physician's point of view

### **Detailed program**

- 1. decision support systems in medicine
- 2. patient-specific prediction
- 3. optimization approaches
- 4. statistical tools
- 5. validation of the tools
- 6. analysis of real systems from the physician's point of view

## **Prerequisites**

General idea of decision making in medicine.

Basic mathematical knowledge.
Teaching form
Lectures and working groups for the analysis of systems from literature.
Textbook and teaching resource
Slides and scientific papers.
Semester
Second semester.
Assessment method
Classroom discussion on examples of clinical decision support systems.
Office hours
Contact by e-mail.
Sustainable Development Goals
GOOD HEALTH AND WELL-BEING