



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Clinical Decision Support Systems

2425-3-H4102D045

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#### Aims

To know and understand the clinical 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

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