



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Therapeutic Drug Monitoring

2021-3-I0302D035-I0302D041M

---

#### Aims

Explain the basic principles of therapeutic drug monitoring, monitoring of toxic substances and drugs and related methods

#### Contents

The primary goal of the course is to provide tools for the understanding of the laboratory techniques to approach the field of Therapeutic drug monitoring

#### Detailed program

General principles of therapeutic drug monitoring: definition and rational basis of the Therapeutic Drug Monitoring (TDM); main analytical methods of drug monitoring (Particular parts of mass spectrometry: ESI and APCI ionization processes; Orbitrap and linear trap mass analysers; tandem mass spectrometry and its different modality of use). Rationalization of the TDM of the most frequently monitored drugs, toxins and drugs.

#### Prerequisites

Having passed the compulsory courses of the degree

#### Teaching form

Lectures

### **Textbook and teaching resource**

The Teachers will provide educational materials

### **Semester**

First semester

### **Assessment method**

Written test: multiple choice test and open questions

Oral Test: discussion of written test

### **Office hours**

On appointment requested by mail

---