



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Crystallography and Laboratory of X-ray powder diffraction

2324-1-124R021

---

#### Title

Crystallography and Laboratory of X-ray powder diffraction

#### Teacher(s)

Chiara Ferrara ; Massimo Moret

#### Language

English

#### Short description

Program:

- Symmetry in crystals
- Examples of crystalline structures
- Mechanisms of Crystal growth

- Diffraction of X-ray by crystals
- Experimental methods in X-ray: from single crystals to powders

Objectives of the program:

To understand the role of symmetry in periodic structures, basics of crystal growth, theory of diffraction in crystals, the use of diffraction to study solids. To make and interpret experiments on powdered polycrystalline samples.

Evaluation: YES - Oral examination

## **CFU / Hours**

2 CFU - 18 Hours (12h lectures - 6h laboratory training)

## **Teaching period**

II semester: 2nd half of May to 1st half of June 2024

## **Sustainable Development Goals**

---