



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Raman Spectroscopy: A Flexible Tool for an Integrated Research Approach

2425-1-124R006

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#### Title

Raman spectroscopy: a flexible tool for an integrated approach in scientific research

#### Teacher(s)

Sergio Andò ; Maria Luce Frezzotti ; Alberto Resentini ; Luca Ferrero ; Chiara Urani

#### Language

English

#### Short description

- Raman spectroscopy in Earth and planetary Sciences (Sergio Andò) - 1h
- Raman spectroscopy in mineralogy and geochemistry (Sergio Andò) - 2h
- Raman spectroscopy and U-Pb geochronology (Alberto Resentini) - 2h

- Raman analysis of inclusions in minerals (Maria Luce Frezzotti) - 2h
- Raman spectroscopy of carbon (Maria Luce Frezzotti) - 2h
- Raman spectroscopy in Geobiology (Sergio Andò) - 1h
- Luminescence and Raman signals - 1h
- Future applications of Raman spectroscopy (Sergio Andò) -1h
- Raman spectroscopy a new tool for identification of microplastic (Luca Ferrero) - 1h
- Raman spectroscopy in health and environmental studies: (Chiara Urani) - 1h
- Surface-enhanced Raman spectroscopy (SERS) - 1h
- Tip-enhanced Raman spectroscopy (TERS) - 1h

Evaluation: NO

## **CFU / Hours**

2 CFU - 16 Hours (Lecture)

## **Teaching period**

II semester

## **Sustainable Development Goals**

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