



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### **Raman spectroscopy: a flexible tool for an integrated approach in scientific research (Intercurricular)**

2122-94R-SCGA36

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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 ; Veronica Nava; Chiara Urani; Claudia Conti

#### **Language**

English

#### **Short description**

- Raman theory and principles (Maria Luce Frezzotti) - 2h
- Raman spectroscopy in Earth and planetary Sciences (Sergio Andò) - 1h
- Raman spectroscopy in mineralogy and geochemistry (Sergio Andò) - 2h
- Raman analysis of inclusions in minerals and zircon thermochronology (Alberto Resentini) - 2h

- Future applications of Raman spectroscopy in georesources (Sergio Andò) -1h
- Luminescence and Raman signals - 1h (Sergio Andò) - 1h
- Raman spectroscopy of carbon (Maria Luce Frezzotti) - 2h
- Raman spectroscopy a new tool for identification of microplastic (Luca Ferrero and Veronica Nava) - 2h
- Raman spectroscopy in health and environmental studies (Chiara Urani) - 1h
- Advances in Raman Spectroscopy for the non-invasive subsurface investigation of Cultural Heritage materials (Claudia Conti - ISPC) - 2h

Evaluation: NO

### **CFU / Hours**

2 CFU - 16 Hours (Lecture)

### **Teaching period**

II semester

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