



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

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

2223-94R-SCGA011

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#### **Titolo**

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

#### **Docente(i)**

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

#### **Lingua**

English

#### **Breve descrizione**

- 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 / Ore**

2 CFU - 16 Hours (Lecture)

### **Periodo di erogazione**

Il semestre

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