UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

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

2223-94R-SCGA011

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-enhances Raman spectroscopy (SERS) - 1h

• Tip-enhanced Raman spectroscopy (TERS) - 1h

Evaluation: NO

CFU / Hours

2 CFU - 16 Hours (Lecture)

Teaching period

II semester