

DIAGNOSTICS FOR CULTURAL HERITAGE (LM61)

(- Università degli Studi)

Insegnamento PHYSICAL CHEMISTRY FOR CULTURAL

GenCod A005454

Insegnamento PHYSICAL CHEMISTRY FOR CULTURAL HERITAGE

Anno di corso 1

Insegnamento in inglese PHYSICAL CHEMISTRY FOR CULTURAL HERITAGE

Lingua INGLESE

Settore disciplinare CHIM/02

Percorso PERCORSO COMUNE

Corso di studi di riferimento DIAGNOSTICS FOR CULTURAL

Docente Gabriele GIANCANE

Tipo corso di studi Laurea Magistrale

Sede

Crediti 9.0

Periodo Primo Semestre

Ripartizione oraria Ore Attività frontale:

Tipo esame Orale

Per immatricolati nel 2018/2019

Valutazione Voto Finale

Erogato nel 2018/2019

Orario dell'insegnamento

<https://easyroom.unisalento.it/Orario>

PREREQUISITI

Basic concepts of chemistry and physics.

OBIETTIVI FORMATIVI

Diagnostic techniques used to characterize the material components of historically relevant artifacts and the processes that rule the degradation of the materials will be systematically analysed and explained. In particular, not destructive spectroscopic methodologies will be proposed to the students.

During the course, the students will be involved in the study of scientific papers that will be critically analysed highlighting strength and weakness of the proposed researches in order to educate the

METODI DIDATTICI

Frontal lessons will be given. Course attendance is compulsory.

MODALITA' D'ESAME

Oral tests will be used to evaluate if the students reached the course's objectives

APPELLI D'ESAME

29 gennaio 2019
14 febbraio 2019
28 febbraio 2019
2 maggio 2019
13 giugno 2019
9 luglio 2019

PROGRAMMA ESTESO

During the course, concepts of Physical Chemistry will be proposed and particular attention will be paid towards the study of the degradation processes that affect the historical artifacts and monuments.

Possible strategies to prevent the effects of external agents on different materials will be examined and the analytical techniques used to characterize them will be considered. Furthermore, chemical

TESTI DI RIFERIMENTO

- AA. VV., La Chimica per l'Arte, Zanichelli.
- Conservation Science for the Cultural Heritage, Applications of Instrumental Analysis, Editor: Varella, Evangelia A.; Springer
- Zecchina, Alchimie nell'arte, Zanichelli
- Science and Art: The Painted Surface Editors: Antonio Sgamellotti, Brunetto Giovanni Brunetti, Costanza Miliani, RSC.
- Ted Lister, Conservation Chemistry, An Introduction; Royal Society of Chemistry.
- M.R. Derrick et al., Infrared Spectroscopy in Conservation Science, Publisher: Getty Trust Publications.
- C. Wayne Smith, Archaeological Conservation Using Polymers, Practical Applications for Organic Artifact Stabilization, Texas A & M University Press
- G. Artioli, Scientific Methods and Cultural Heritage, An Introduction to the Application of Materials Science to Archaeometry and Conservation Science, Oxford University Press