

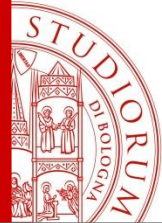
International Master Degree in Science for the Conservation - Restoration of Cultural Heritage

Programme Director: Prof.ssa Silvia Prati
Programme Coordinator: Dott.ssa Chiara Brighi



Palazzo Santa Croce, Via Guaccimanni 42 Ravenna
University of Bologna - Ravenna Campus

<http://corsi.unibo.it/scienceforconservation/Pages/default.aspx>



Science for the Conservation - Restoration of Cultural Heritage

CONSERVATION SCIENTIST:

Scientist with further knowledge in conservation (ethics, history, cultural values, historical technologies, past and present conservation technologies and practice, specific scientific aspects, etc.) which enables him/her to contribute to the study and conservation of cultural heritage within an interdisciplinary team in order to:

- Study, investigate and monitor cultural heritage and its environment
- Define, develop and evaluate conservation concepts, materials, measures, methods and techniques and develop standards and guidelines.
- Provide diagnosis before, during and after conservation-restoration interventions.
- Conduct research on causes and mechanisms of deterioration and interpret scientific results for the benefit of the conservation of cultural heritage.

RESEARCH
INSTITUTION

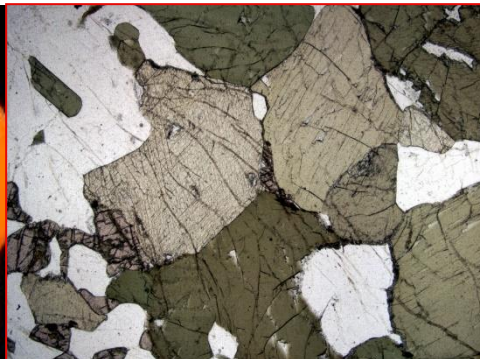
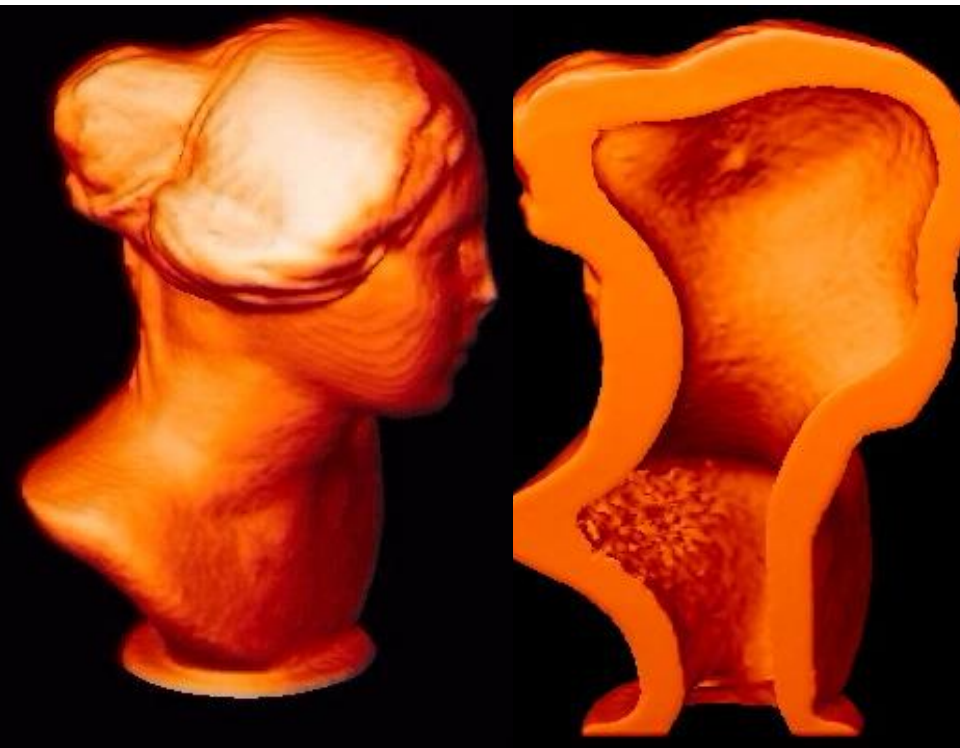
CONSERVATION
CENTERS

PRIVATE
LABORATORIES



Science for the Conservation - Restoration of Cultural Heritage

- Lectures UNIBO internal and external staff involved in the course has a documented research experience in the field
- Lectures in classrooms and in laboratory





Science for the Conservation - Restoration of Cultural Heritage

	YEAR/SEMESTER	SSD	CFU
AIR POLLUTION CHEMISTRY	1/1	CHIM/12	6
CHARACTERIZATION OF STONE MATERIALS	1/1	GEO/09	8
CHEMISTRY FOR RESTORATION	1/1	CHIM/12	8
PHYSICAL METHODS OF EXAMINING CULTURAL PROPERTY	1/1	FIS/07	8
ENVIRONMENTAL IMPACT ON MATERIALS, DETERIORATION AND AGEING	1/2	FIS/07	6
ADVANCED MATERIALS FOR CULTURAL HERITAGE M	1/2	CHIM/12	6
ANALYTICAL CHEMISTRY OF ORGANIC MATERIALS	1/2	CHIM/01	6
BIOLOGY FOR BIOARCHAEOLOGICAL MATERIALS AND CULTURAL HERITAGE	1/2	BIO/08	12
COMPUTER SCIENCE APPLICATIONS TO CULTURAL HERITAGE	2/1	INF/01	6
CHEMICAL METHODS OF EXAMINING CULTURAL PROPERTY	2/1	CHIM/12	6
PROCESSES IN CONSERVATION	2/1	L-ART/04	6
PROJECT	2/2		3
FINAL EXAMINATION	2/2		30
Free-choice academic activities (9 cfu)			
INFORMATION LITERACY	2/1		3
CONSERVATION THEORY OF HISTORIC BUILDINGS AND HERITAGE CONSERVATION M	2/1	ICAR/19	9



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CHEMISTRY

PHYSICS

BIOLOGY

GEOLOGY

OTHER

AIR POLLUTION
CHEMISTRY
CHEMISTRY FOR
RESTORATION
ANALYTICAL
CHEMISTRY OF
ORGANIC
MATERIALS
ADVANCED
MATERIALS FOR
CULTURAL
HERITAGE
CHEMICAL
METHODS OF
EXAMINING
CULTURAL
PROPERTY

ENVIRONMENTAL
IMPACT ON
MATERIALS,
DETERIORATION
AND AGEING

PHYSICAL
METHODS OF
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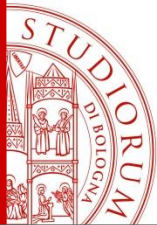
BIODETERIORATI
ON AND
DEGRADATION
OF
BIOARCHAEOLOG
ICAL MATERIALS

CHARACTERIZA
TION OF STONE
MATERIALS

COMPUTER
SCIENCE
APPLICATIONS TO
CULTURAL
HERITAGE

PROCESSES IN
CONSERVATION

FREE CHOICE EXAM



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Some courses contain different modules: FINAL SCORE AVERAGE SCORE OBTAINED IN EACH MODULE

ANALYTICAL CHEMISTRY OF ORGANIC MATERIALS

- MODULE 1 CHROMATOGRAPHIC METHODS
- MODULE 2 IMMUNOLOGICAL METHODS

BIOLOGY FOR BIOARCHAEOLOGICAL MATERIALS AND CULTURAL HERITAGE

- MODULE 1: BIOARCHAEOLOGICAL MATERIALS
- MODULE 2: DATING OF BIOARCHAEOLOGICAL MATERIALS
- MODULE 3: BIODETERIORATION OF STONE MATERIALS AND CONTROL METHODS OF THE BIODETERIOGENS

ENVIRONMENTAL IMPACT ON MATERIALS, DETERIORATION AND AGEING

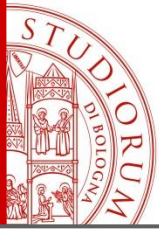
- MODULE 1
- MODULE 2: PREVENTIVE CONSERVATION

ADVANCED MATERIALS FOR CULTURAL HERITAGE

- MODULE 1
- MODULE 2

PHYSICAL METHODS OF EXAMINING CULTURAL PROPERTY

- MODULE 1: NUCLEAR MAGNETIC RESONANCE FOR CULTURAL HERITAGE
- MODULE 2: ACOUSTIC METHODS FOR CULTURAL HERITAGE
- MODULE 2: X-RAY DIGITAL RADIOGRAPHY AND COMPUTED TOMOGRAPHY FOR CULTURAL HERITAGE
- MODULE 3: ELEMENTAL ANALYSIS OF MUSEUM OBJECTS



THESIS

PROJECT: 3 CFU

Preliminary report

<http://corsi.unibo.it/scienceforconservation/Pages/how-to-prepare-the-thesis-project-3cfu.aspx>

1. *Introduction*
2. *Research objectives*
3. *Experimental methodology*
4. *Expected results*
5. *Bibliography (state of the art)*

FINAL EXAMINATION: 30 CFU

Experimental research activities held in:

- UNIBO laboratories
- ITALIAN laboratories
- FOREIGN laboratories

SCOLARSHIPS FOR THESIS ABROAD AVAILABLE!!!!

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- International context
- Scholarship for thesis abroad:
 - Conservation centers and/or museum: Louvre, Victoria and Albert Museum, Chicago Conservation Institute, Rijks Museum, Prado, LNEC (Lisbona), Hercules (Evora), FORTH (Heraklion)
 - Universities: Anversa, Aachen, Amsterdam, Torun, North Western (Chicago)





Science for the Conservation - Restoration of Cultural Heritage

Admission requirements

- English level B2: without certification, interview.
- Basic scientific knowledge in the transcript of records or interview: chemistry, physics, geology, biology

Direct admission

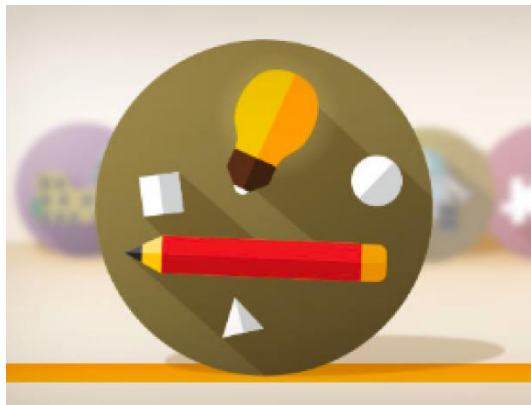
- 1st cycle degree L-43 Technologies for the Preservation and Restoration of the Cultural
- 1st cycle degree LT 41 Technologies for the Preservation and Restoration of the Cultural Heritage
- University Diploma in Diagnostic technician for the restoration and conservation of the cultural heritage.



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Pre-courses

Pre-courses of Chemistry and Mineralogy from 16-27
September 2019!!!!



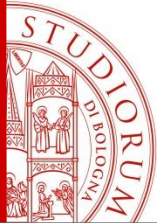


Science for the Conservation - Restoration of Cultural Heritage

- POST LAUREA: DOTTORATO INTERNAZIONALE STECH
- “SCIENCE AND TECHNOLOGY FOR CULTURAL HERITAGE”

<https://www.unibo.it/it/didattica/dottorati/2018-2019/beni-culturali-e-ambientali>





FOR FURTHER INFORMATION:

<http://corsi.unibo.it/scienceforconservation/Pages/default.aspx>

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